API Well Number: 43013506990000

**STATE OF UTAH**
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3
AMENDED REPORT ☐

## APPLICATION FOR PERMIT TO DRILL

**1. WELL NAME and NUMBER**
GMBU U-7-9-16

**2. TYPE OF WORK**
DRILL NEW WELL ● REENTER P&A WELL ○ DEEPEN WELL ○

**3. FIELD OR WILDCAT**
MONUMENT BUTTE

**4. TYPE OF WELL**
Oil Well Coalbed Methane Well: NO

**5. UNIT or COMMUNITIZATION AGREEMENT NAME**
GMBU (GRRV)

**6. NAME OF OPERATOR**
NEWFIELD PRODUCTION COMPANY

**7. OPERATOR PHONE**
435 646-4825

**8. ADDRESS OF OPERATOR**
Rt 3 Box 3630 , Myton, UT, 84052

**9. OPERATOR E-MAIL**
mcrozier@newfield.com

**10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)**
UTU-74390

**11. MINERAL OWNERSHIP**
FEDERAL ● INDIAN ○ STATE ○ FEE ○

**12. SURFACE OWNERSHIP**
FEDERAL ● INDIAN ○ STATE ○ FEE ○

**13. NAME OF SURFACE OWNER (if box 12 = 'fee')**

**14. SURFACE OWNER PHONE (if box 12 = 'fee')**

**15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')**

**16. SURFACE OWNER E-MAIL (if box 12 = 'fee')**

**17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')**

**18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS**
YES ○ (Submit Commingling Application) NO ●

**19. SLANT**
VERTICAL ○ DIRECTIONAL ● HORIZONTAL ○

| 20. LOCATION OF WELL | FOOTAGES | QTR-QTR | SECTION | TOWNSHIP | RANGE | MERIDIAN |
|---|---|---|---|---|---|---|
| LOCATION AT SURFACE | 546 FNL 671 FWL | NWNW | 17 | 9.0 S | 16.0 E | S |
| Top of Uppermost Producing Zone | 144 FNL 240 FWL | NWNW | 17 | 9.0 S | 16.0 E | S |
| At Total Depth | 270 FSL 178 FEL | SESE | 7 | 9.0 S | 16.0 E | S |

**21. COUNTY**
DUCHESNE

**22. DISTANCE TO NEAREST LEASE LINE (Feet)**
2818

**23. NUMBER OF ACRES IN DRILLING UNIT**
20

**25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)**
872

**26. PROPOSED DEPTH**
MD: 6388 TVD: 6388

**27. ELEVATION - GROUND LEVEL**
6016

**28. BOND NUMBER**
WYB000493

**29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE**
437478

### Hole, Casing, and Cement Information

| String | Hole Size | Casing Size | Length | Weight | Grade & Thread | Max Mud Wt. | Cement | Sacks | Yield | Weight |
|---|---|---|---|---|---|---|---|---|---|---|
| Surf | 12.25 | 8.625 | 0 - 300 | 24.0 | J-55 ST&C | 8.3 | Class G | 138 | 1.17 | 15.8 |
| Prod | 7.875 | 5.5 | 0 - 6388 | 15.5 | J-55 LT&C | 8.3 | Premium Lite High Strength | 303 | 3.26 | 11.0 |
| | | | | | | | 50/50 Poz | 363 | 1.24 | 14.3 |

### ATTACHMENTS

**VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES**

- ☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
- ☑ COMPLETE DRILLING PLAN
- ☐ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)
- ☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
- ☑ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)
- ☑ TOPOGRAPHICAL MAP

**NAME** Mandie Crozier | **TITLE** Regulatory Tech | **PHONE** 435 646-4825

**SIGNATURE** | **DATE** 04/27/2011 | **EMAIL** mcrozier@newfield.com

**API NUMBER ASSIGNED**
43013506990000

**APPROVAL**

Permit Manager

**RECEIVED: May. 12, 2011**

NEWFIELD PRODUCTION COMPANY
GMBU U-7-9-16
AT SURFACE: NW/NW SECTION 17, T9S, R16E
DUCHESNE COUNTY, UTAH

TEN POINT DRILLING PROGRAM

1. **GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

2. **ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

| | |
|---|---|
| Uinta | 0' – 1650' |
| Green River | 1650' |
| Wasatch | 6200' |
| **Proposed TD** | 6388' |

3. **ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation (Oil) 1650' – 6200'

Fresh water may be encountered in the Uinta Formation, but would not be expected below about 350'. All water shows and water bearing geologic units shall be reported to the geologic and engineering staff of the Vernal Office prior to running the next string of casing or before plugging orders are requested. All water shows must be reported within one (1) business day after being encountered.

All usable (<10,000 PPM TDS) water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth and adequately protected. This information shall be reported to the Vernal Office.

Detected water flows shall be sampled, analyzed, and reported to the geologic & engineering staff of the Vernal Office. The office may request additional water samples for further analysis. Usage of the State of Utah form *Report of Water Encountered* is acceptable, but not required.

The following information is requested for water shows and samples where applicable:

| | |
|---|---|
| Location & Sampled Interval | Date Sampled |
| Flow Rate | Temperature |
| Hardness | pH |
| Water Classification (State of Utah) | Dissolved Calcium (Ca) (mg/l) |
| Dissolved Iron (Fe) (ug/l) | Dissolved Sodium (Na) (mg/l) |
| Dissolved Magnesium (Mg) (mg/l) | Dissolved Carbonate ($CO_3$) (mg/l) |
| Dissolved Bicarbonate ($NaHCO_3$) (mg/l) | Dissolved Chloride (Cl) (mg/l) |
| Dissolved Sulfate ($SO_4$) (mg/l) | Dissolved Total Solids (TDS) (mg/l) |

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## 4. *PROPOSED CASING PROGRAM*

### a. Casing Design: GMBU U-7-9-16

| Size | Interval | | Weight | Grade | Coupling | Design Factors | | |
|---|---|---|---|---|---|---|---|---|
| | Top | Bottom | | | | Burst | Collapse | Tension |
| Surface casing<br>8-5/8" | 0' | 300' | 24.0 | J-55 | STC | 2,950<br>17.53 | 1,370<br>14.35 | 244,000<br>33.89 |
| Prod casing<br>5-1/2" | 0' | 6,388' | 15.5 | J-55 | LTC | 4,810<br>2.37 | 4,040<br>1.99 | 217,000<br>2.19 |

Assumptions:
1) Surface casing max anticipated surface press (MASP) = Frac gradient – gas gradient
2) Prod casing MASP (production mode) = Pore pressure – gas gradient
3) All collapse calculations assume fully evacuated casing w/ gas gradient
4) All tension calculations assume air weight

| | |
|---|---|
| Frac gradient at surface casing shoe = | 13.0 ppg |
| Pore pressure at surface casing shoe = | 8.33 ppg |
| Pore pressure at prod casing shoe = | 8.33 ppg |
| Gas gradient = | 0.115 psi/ft |

All casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of 1 (one) centralizer on each of the bottom three (3) joints.

### b. Cementing Design: GMBU U-7-9-16

| Job | Fill | Description | Sacks<br>$ft^3$ | OH Excess* | Weight (ppg) | Yield ($ft^3$/sk) |
|---|---|---|---|---|---|---|
| Surface casing | 300' | Class G w/ 2% CaCl | 138<br>161 | 30% | 15.8 | 1.17 |
| Prod casing<br>Lead | 4,388' | Prem Lite II w/ 10% gel + 3% KCl | 303<br>988 | 30% | 11.0 | 3.26 |
| Prod casing<br>Tail | 2,000' | 50/50 Poz w/ 2% gel + 3% KCl | 363<br>451 | 30% | 14.3 | 1.24 |

*Actual volume pumped will be 15% over the caliper log
- Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours
- Compressive strength of tail cement: 2500 psi @ 24 hours

Hole Sizes: A 12-1/4" hole will be drilled for the 8-5/8" surface casing. A 7-7/8" hole will be drilled for the 5-1/2" production casing.

The 8-5/8" surface casing shall in all cases be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.

## 5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

The operator's minimum specifications for pressure control equipment are as follows:

RECEIVED: May. 12, 2011

An 8" Double Ram Hydraulic unit with a closing unit will be utilized. Function test of BOP's will be check daily.

Refer to **Exhibit C** for a diagram of BOP equipment that will be used on this well.

6. **TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

From surface to ±350 feet will be drilled with an air/mist system. The air rig is equipped with a 6 ½" blooie line that is straight run and securely anchored. The blooie line is used with a discharge less than 100 ft from the wellbore in order to minimize the well pad size. The blooie line is not equipped with an automatic igniter or continuous pilot light and the compressor is located less than 100 ft from the well bore due to the low possibility of combustion with the air dust mixture. The trailer mounted compressor (capacity of 2000 CFM) has a safety shut-off valve which is located 15 feet from the air rig. A truck with 70 bbls of water is on stand by to be used as kill fluid, if necessary. From about ±350 feet to TD, a fresh water system will be utilized. Clay inhibition and hole stability will be achieved with a KCl substitute additive. This additive will be identified in the APD and reviewed to determine if the reserve pit shall be lined. This fresh water system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated mud weight is 8.4 lbs/gal. If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite

No chromate additives will be used in the mud system on Federal and/or Indian lands without prior BLM approval to ensure adequate protection of fresh aquifers.

No chemicals subject to reporting under SARA Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

Newfield Production will **visually** monitor pit levels and flow from the well during drilling operations.

7. **AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. **TESTING, LOGGING AND CORING PROGRAMS:**

The logging program will consist of a Dual Induction, Gamma Ray and Caliper log from TD to base of surface casing @ 300' +/-, and a Compensated Neutron-Formation Density Log from TD to 3500' +-. A cement bond log will be run from PBTD to cement top. No drill stem testing or coring is planned for this well.

9. **ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:**

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottomhole pressure will approximately equal total depth in feet multiplied by a 0.433 psi/foot gradient.

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10. **ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:**

It is anticipated that the drilling operations will commence the third quarter of 2011, and take approximately seven (7) days from spud to rig release.

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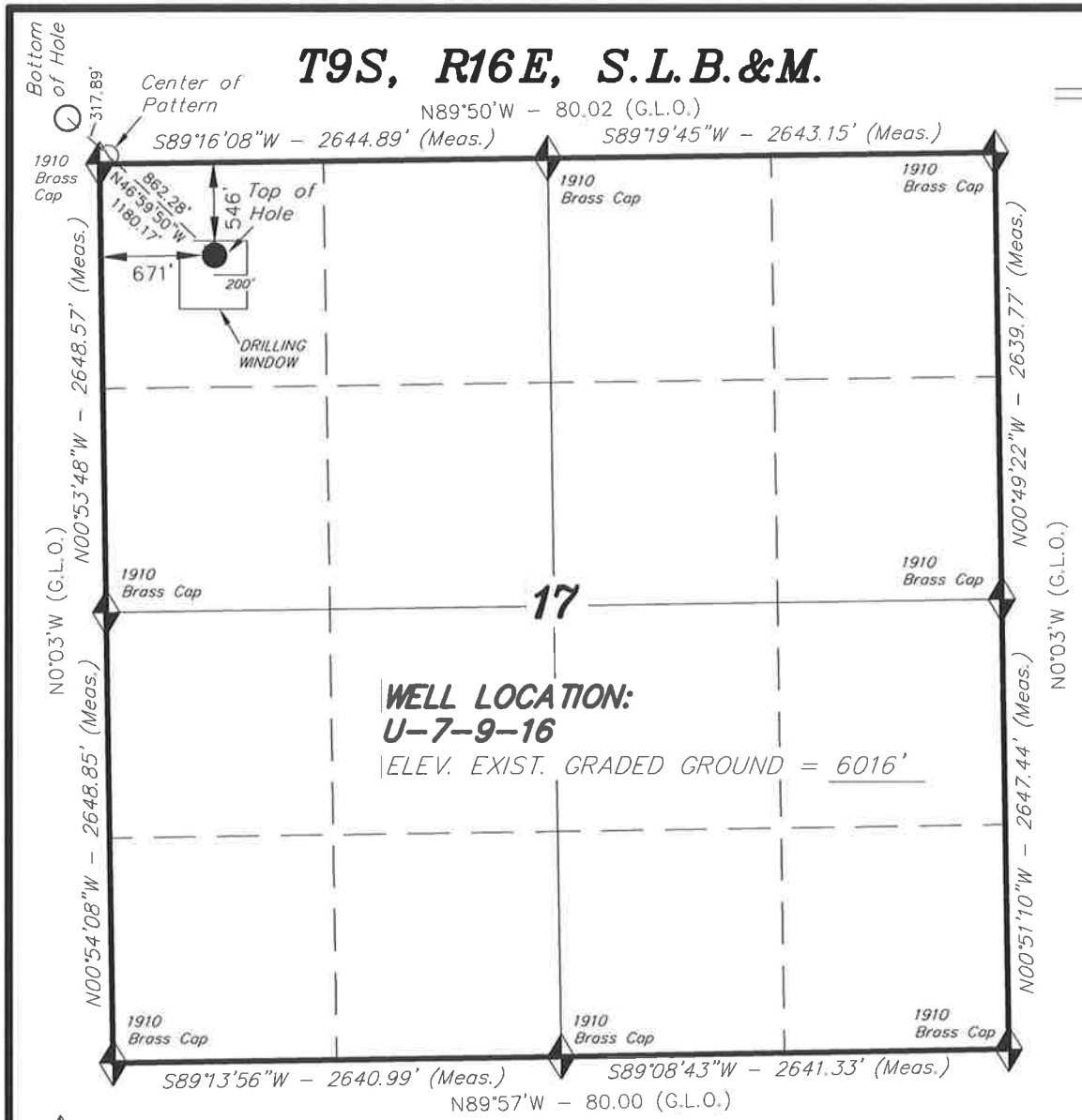
# T9S, R16E, S.L.B.&M.

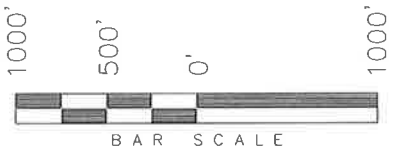



= SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are base on LOCATION: an N.G.S. OPUS Correction. LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

## NEWFIELD EXPLORATION COMPANY

WELL LOCATION, U-7-9-16, LOCATED AS SHOWN IN THE NW 1/4 NW 1/4 OF SECTION 17, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.




**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Center of Pattern footages are 50' FSL & 50' FWL Section 8, T9S, R16E.

N

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REG. No. 189377 REGISTERED LAND SURVEYOR STATE OF UTAH

STACY W. STEWART
REGISTERED LAND SURVEYOR
REGISTRATION No. [illegible]
STATE OF UTAH

| U-7-9-16 (Surface Location) | NAD 83 |
|---|---|
| LATITUDE = 40° 02' 12.00" | |
| LONGITUDE = 110° 09' 00.85" | |

## TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. – VERNAL, UTAH 84078
(435) 781-2501

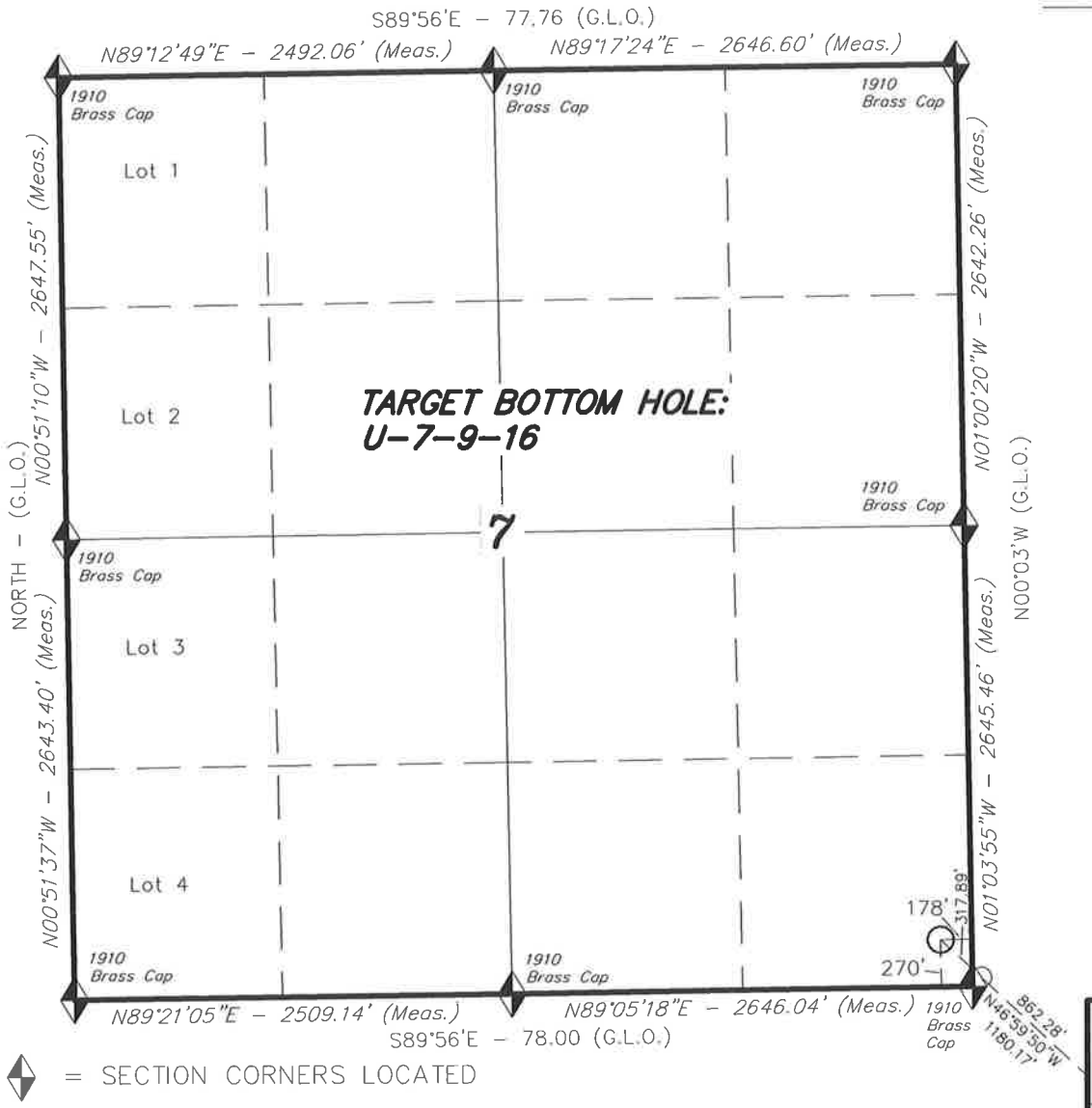
| | |
|---|---|
| DATE SURVEYED: 11-01-10 | SURVEYED BY: T.P. |
| DATE DRAWN: 01-19-11 | DRAWN BY: M.W. |
| REVISED: | SCALE: 1" = 1000' |

RECEIVED: May. 12, 2011

# T9S, R16E, S.L.B.&M.

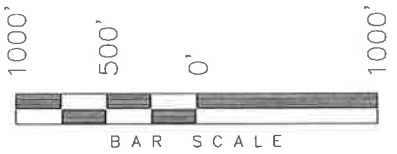
## NEWFIELD EXPLORATION COMPANY

TARGET BOTTOM HOLE, U-7-9-16,
LOCATED AS SHOWN IN THE SE 1/4 SE
1/4 OF SECTION 7, T9S, R16E,
S.L.B.&M. DUCHESNE COUNTY, UTAH.




◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are base on
LOCATION: an N.G.S. OPUS Correction.
LAT. 40°04'09.56" LONG. 110°00'43.28"
(Tristate Aluminum Cap) Elev. 5281.57'





**NOTES:**

1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Center of Pattern footages are 50' FSL & 50' FWL Section 8, T9S, R16E.

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No.189377
STACY W. STEWART
REGISTERED LAND SURVEYOR
REGISTRATION No. [illegible]
STATE OF UTAH

REGISTERED LAND SURVEYOR
STATE OF UTAH

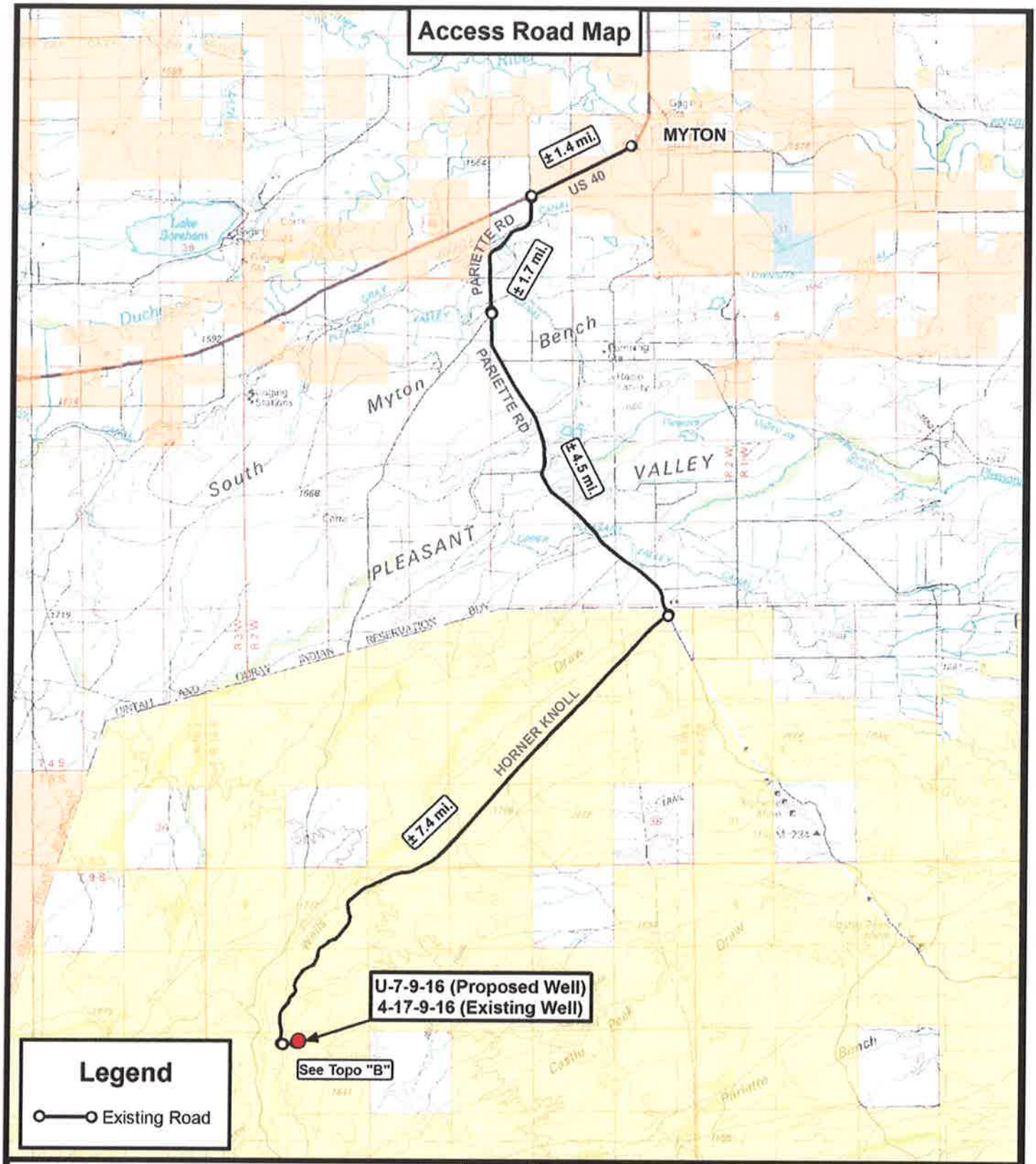
## TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
(435) 781-2501

| | |
|---|---|
| DATE SURVEYED: 11-01-10 | SURVEYED BY: T.P. |
| DATE DRAWN: 01-19-11 | DRAWN BY: M.W. |
| REVISED: | SCALE: 1" = 1000' |

RECEIVED: May. 12, 2011

API Well Number: 43013506990000





Tri State Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518


N

**NEWFIELD EXPLORATION COMPANY**

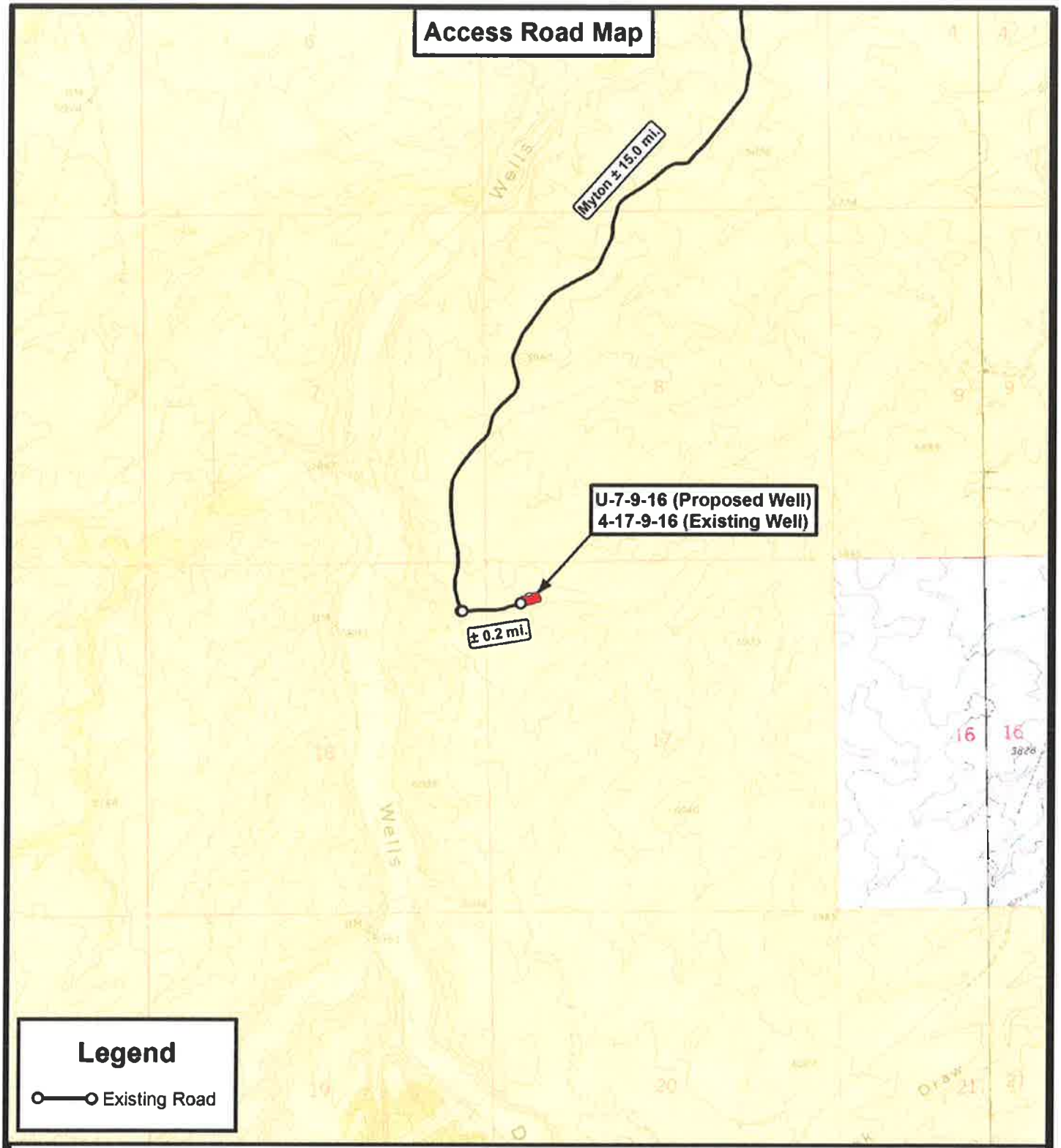
U-7-9-16 (Proposed Well)
4-17-9-16 (Existing Well)
SEC. 17, T9S, R16E, S.L.B.&M.
Duchesne County, UT.

| | |
|---|---|
| DRAWN BY: | C.H.M. |
| DATE: | 01-19-2011 |
| SCALE: | 1:100,000 |

**TOPOGRAPHIC MAP**

SHEET A


RECEIVED: May. 12, 2011




THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.

Tri State Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518

N

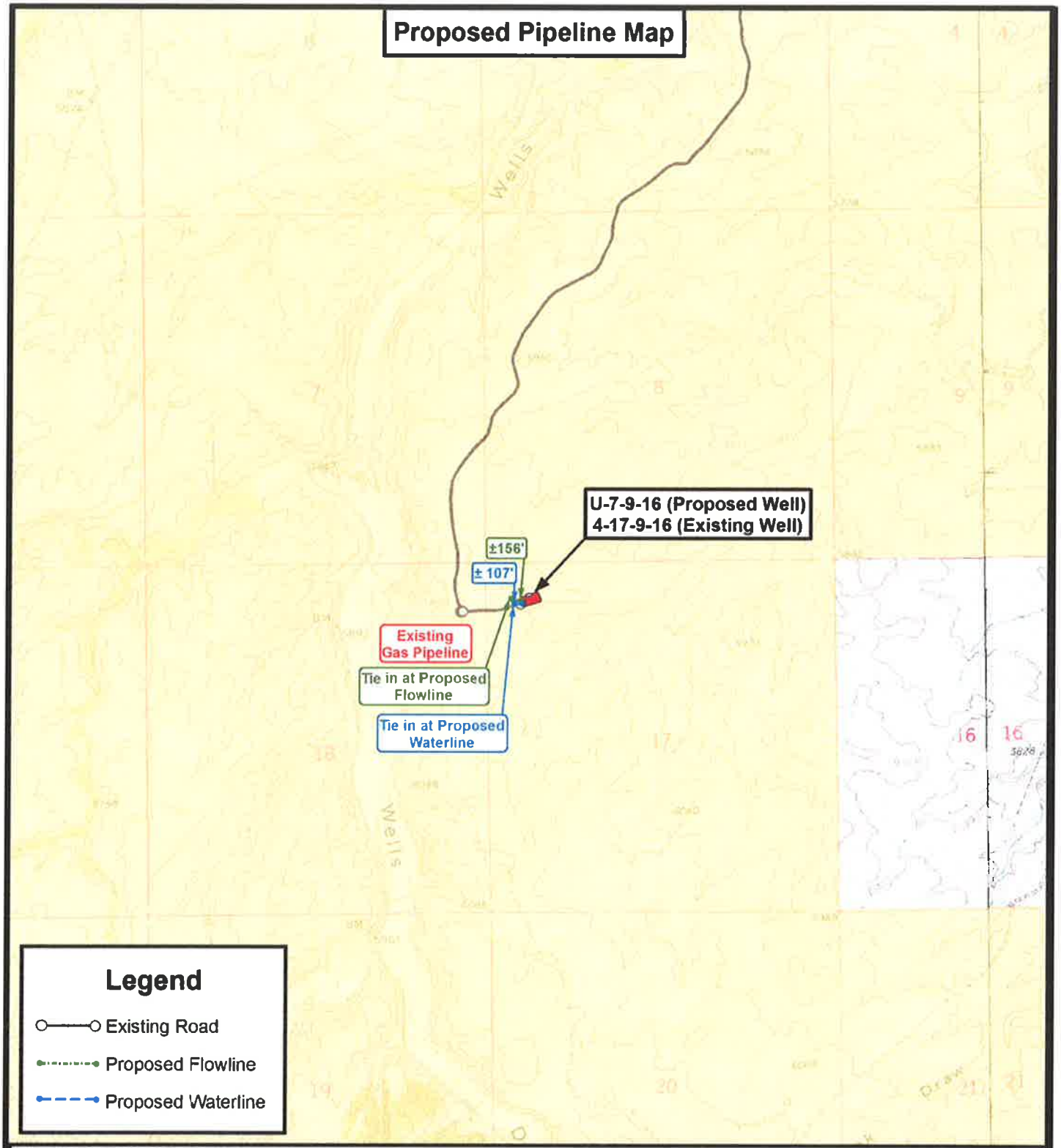
**NEWFIELD EXPLORATION COMPANY**
U-7-9-16 (Proposed Well)
4-17-9-16 (Existing Well)
SEC. 17, T9S, R16E, S.L.B.&M.
Duchesne County, UT.

| | |
|---|---|
| DRAWN BY: | C.H.M. |
| DATE: | 01-19-2011 |
| SCALE: | 1 " = 2,000 ' |

**TOPOGRAPHIC MAP**

SHEET B

RECEIVED: May. 12, 2011

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180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518

N

**NEWFIELD EXPLORATION COMPANY**

U-7-9-16 (Proposed Well)
4-17-9-16 (Existing Well)
SEC. 17, T9S, R16E, S.L.B.&M.
Duchesne County, UT.

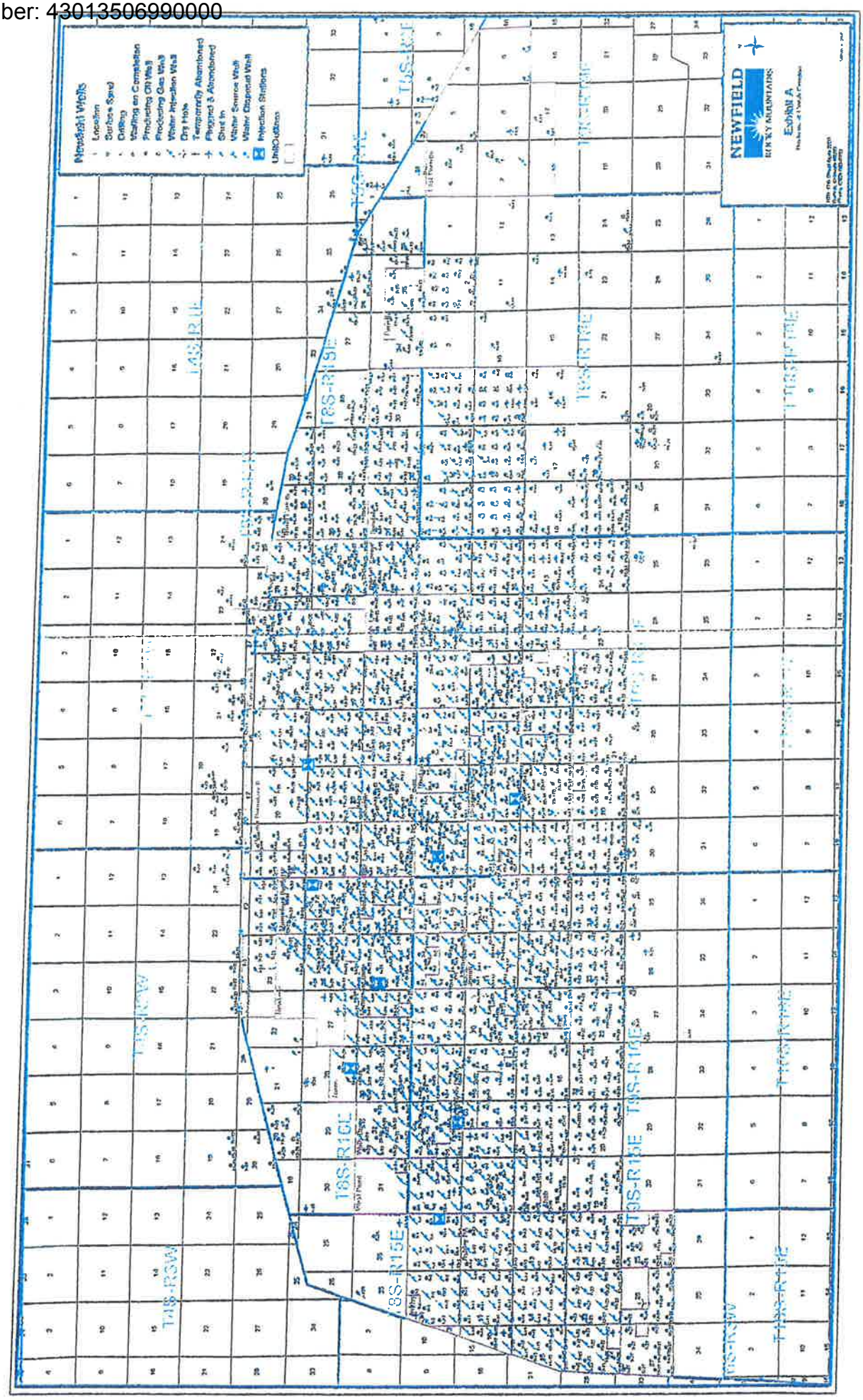
| | |
|---|---|
| DRAWN BY: | C.H.M. |
| DATE: | 01-19-2011 |
| SCALE: | 1 " = 2,000 ' |

TOPOGRAPHIC MAP

SHEET C

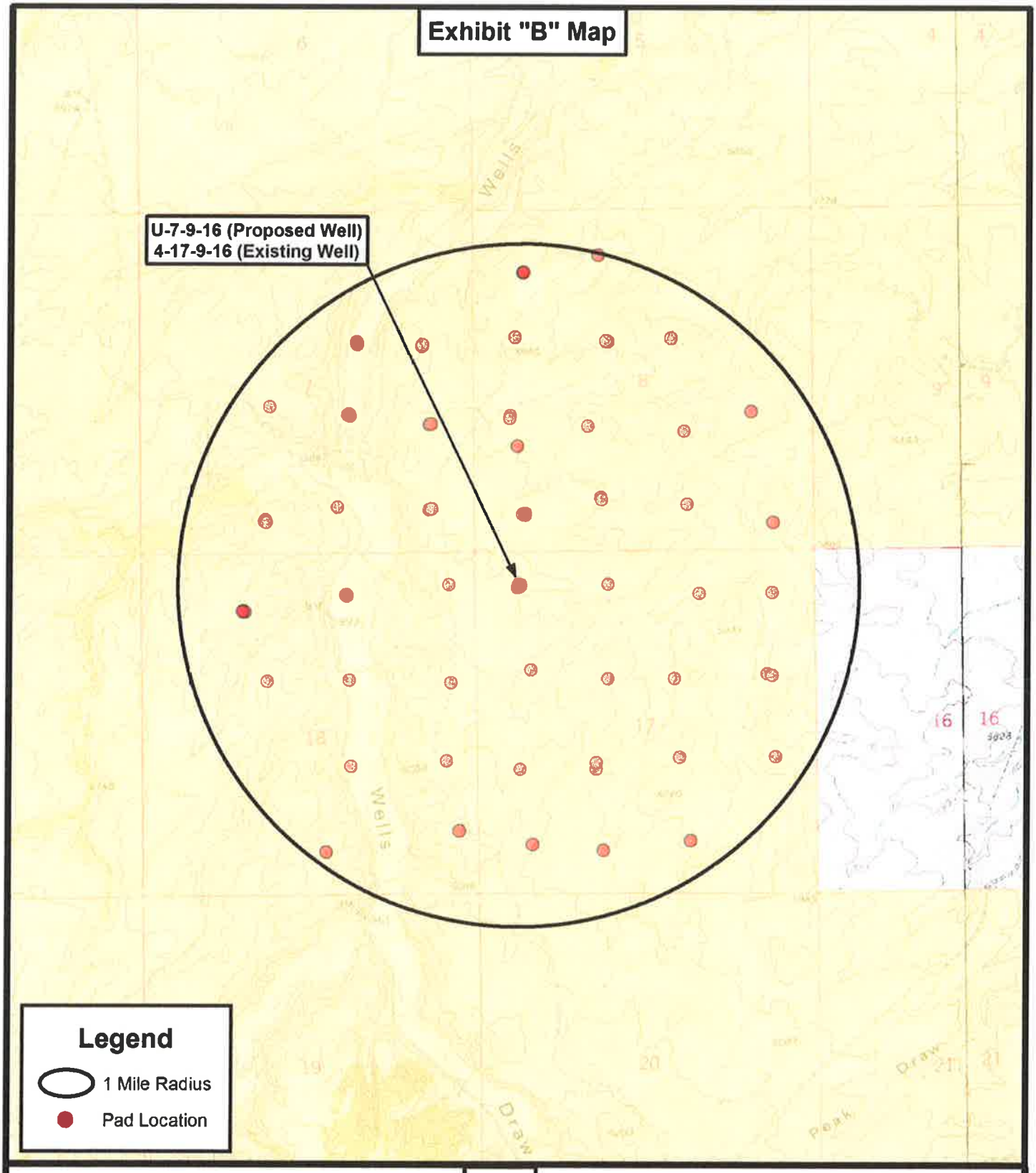
RECEIVED: May. 12, 2011

API Well Number: 43013506990000




**RECEIVED:** May. 12, 2011

# Exhibit "B" Map




Tri State Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518

N

**NEWFIELD EXPLORATION COMPANY**
U-7-9-16 (Proposed Well)
4-17-9-16 (Existing Well)
SEC. 17, T9S, R16E, S.L.B.&M.
Duchesne County, UT.

| | |
|---|---|
| DRAWN BY: | C.H.M. |
| DATE: | 01-19-2011 |
| SCALE: | 1 " = 2,000 ' |

**TOPOGRAPHIC MAP**

SHEET D

RECEIVED: May. 12, 2011

API Well Number: 43013506990000

# NEWFIELD EXPLORATION

**USGS Myton SW (UT)**
**SECTION 17 T9, R16**
**U-7-9-16**

**Wellbore #1**

**Plan: Design #1**

# Standard Planning Report

**22 April, 2011**

**RECEIVED:** May. 12, 2011

NEWFIELD

# PayZone Directional Services, LLC.

## Planning Report

PAYZONE DIRECTIONAL

| | | | |
|---|---|---|---|
| **Database:** | EDM 2003.21 Single User Db | **Local Co-ordinate Reference:** | Well U-7-9-16 |
| **Company:** | NEWFIELD EXPLORATION | **TVD Reference:** | U-7-9-16 @ 6028.0ft (Newfield Rig) |
| **Project:** | USGS Myton SW (UT) | **MD Reference:** | U-7-9-16 @ 6028.0ft (Newfield Rig) |
| **Site:** | SECTION 17 T9, R16 | **North Reference:** | True |
| **Well:** | U-7-9-16 | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Design #1 | | |

| **Project** | USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA | | |
|---|---|---|---|
| **Map System:** | US State Plane 1983 | **System Datum:** | Mean Sea Level |
| **Geo Datum:** | North American Datum 1983 | | |
| **Map Zone:** | Utah Central Zone | | |

| **Site** | SECTION 17 T9, R16 | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 7,185,000.00 ft | **Latitude:** | 40° 2' 12.729 N |
| **From:** | Map | **Easting:** | 2,018,000.00 ft | **Longitude:** | 110° 9' 4.925 W |
| **Position Uncertainty:** | 0.0 ft | **Slot Radius:** | " | **Grid Convergence:** | 0.86 ° |

| **Well** | U-7-9-16, SHL LAT: 40 02 12.00 LONG: -110 09 00.85 | | | | |
|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | -73.8 ft | **Northing:** | 7,184,931.00 ft | **Latitude:** | 40° 2' 12.000 N |
| | **+E/-W** | 316.9 ft | **Easting:** | 2,018,317.99 ft | **Longitude:** | 110° 9' 0.850 W |
| **Position Uncertainty** | | 0.0 ft | **Wellhead Elevation:** | 6,028.0 ft | **Ground Level:** | 6,016.0 ft |

| **Wellbore** | Wellbore #1 | | | | |
|---|---|---|---|---|---|
| **Magnetics** | **Model Name** | **Sample Date** | **Declination (°)** | **Dip Angle (°)** | **Field Strength (nT)** |
| | IGRF2010 | 2010/12/29 | 11.41 | 65.78 | 52,295 |

| **Design** | Design #1 | | | | |
|---|---|---|---|---|---|
| **Audit Notes:** | | | | | |
| **Version:** | | **Phase:** | PROTOTYPE | **Tie On Depth:** | 0.0 |
| **Vertical Section:** | **Depth From (TVD) (ft)** | **+N/-S (ft)** | **+E/-W (ft)** | **Direction (°)** | |
| | 4,850.0 | 0.0 | 0.0 | 313.00 | |

**Plan Sections**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,447.0 | 12.70 | 313.00 | 1,440.1 | 63.8 | -68.4 | 1.50 | 1.50 | 0.00 | 313.00 | |
| 4,942.5 | 12.70 | 313.00 | 4,850.0 | 588.1 | -630.6 | 0.00 | 0.00 | 0.00 | 0.00 | U-7-9-16 TGT |
| 6,387.9 | 12.70 | 313.00 | 6,260.0 | 804.9 | -863.1 | 0.00 | 0.00 | 0.00 | 0.00 | |



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NEWFIELD

# PayZone Directional Services, LLC.

## Planning Report

PAYZONE DIRECTIONAL

| | | | |
|---|---|---|---|
| **Database:** | EDM 2003.21 Single User Db | **Local Co-ordinate Reference:** | Well U-7-9-16 |
| **Company:** | NEWFIELD EXPLORATION | **TVD Reference:** | U-7-9-16 @ 6028.0ft (Newfield Rig) |
| **Project:** | USGS Myton SW (UT) | **MD Reference:** | U-7-9-16 @ 6028.0ft (Newfield Rig) |
| **Site:** | SECTION 17 T9, R16 | **North Reference:** | True |
| **Well:** | U-7-9-16 | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Design #1 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 1.50 | 313.00 | 700.0 | 0.9 | -1.0 | 1.3 | 1.50 | 1.50 | 0.00 |
| 800.0 | 3.00 | 313.00 | 799.9 | 3.6 | -3.8 | 5.2 | 1.50 | 1.50 | 0.00 |
| 900.0 | 4.50 | 313.00 | 899.7 | 8.0 | -8.6 | 11.8 | 1.50 | 1.50 | 0.00 |
| 1,000.0 | 6.00 | 313.00 | 999.3 | 14.3 | -15.3 | 20.9 | 1.50 | 1.50 | 0.00 |
| 1,100.0 | 7.50 | 313.00 | 1,098.6 | 22.3 | -23.9 | 32.7 | 1.50 | 1.50 | 0.00 |
| 1,200.0 | 9.00 | 313.00 | 1,197.5 | 32.1 | -34.4 | 47.0 | 1.50 | 1.50 | 0.00 |
| 1,300.0 | 10.50 | 313.00 | 1,296.1 | 43.6 | -46.8 | 64.0 | 1.50 | 1.50 | 0.00 |
| 1,400.0 | 12.00 | 313.00 | 1,394.2 | 56.9 | -61.0 | 83.5 | 1.50 | 1.50 | 0.00 |
| 1,447.0 | 12.70 | 313.00 | 1,440.1 | 63.8 | -68.4 | 93.5 | 1.50 | 1.50 | 0.00 |
| 1,500.0 | 12.70 | 313.00 | 1,491.8 | 71.7 | -76.9 | 105.2 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 12.70 | 313.00 | 1,589.3 | 86.7 | -93.0 | 127.2 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 12.70 | 313.00 | 1,686.9 | 101.7 | -109.1 | 149.2 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 12.70 | 313.00 | 1,784.4 | 116.7 | -125.2 | 171.2 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 12.70 | 313.00 | 1,882.0 | 131.7 | -141.3 | 193.2 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 12.70 | 313.00 | 1,979.5 | 146.7 | -157.3 | 215.1 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 12.70 | 313.00 | 2,077.1 | 161.7 | -173.4 | 237.1 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 12.70 | 313.00 | 2,174.6 | 176.7 | -189.5 | 259.1 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 12.70 | 313.00 | 2,272.2 | 191.7 | -205.6 | 281.1 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 12.70 | 313.00 | 2,369.7 | 206.7 | -221.7 | 303.1 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 12.70 | 313.00 | 2,467.3 | 221.7 | -237.8 | 325.1 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 12.70 | 313.00 | 2,564.8 | 236.7 | -253.9 | 347.1 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 12.70 | 313.00 | 2,662.4 | 251.7 | -269.9 | 369.1 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 12.70 | 313.00 | 2,759.9 | 266.7 | -286.0 | 391.1 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 12.70 | 313.00 | 2,857.5 | 281.7 | -302.1 | 413.1 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 12.70 | 313.00 | 2,955.1 | 296.7 | -318.2 | 435.1 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 12.70 | 313.00 | 3,052.6 | 311.7 | -334.3 | 457.1 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 12.70 | 313.00 | 3,150.2 | 326.7 | -350.4 | 479.1 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 12.70 | 313.00 | 3,247.7 | 341.7 | -366.4 | 501.1 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 12.70 | 313.00 | 3,345.3 | 356.7 | -382.5 | 523.0 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 12.70 | 313.00 | 3,442.8 | 371.7 | -398.6 | 545.0 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 12.70 | 313.00 | 3,540.4 | 386.7 | -414.7 | 567.0 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 12.70 | 313.00 | 3,637.9 | 401.7 | -430.8 | 589.0 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 12.70 | 313.00 | 3,735.5 | 416.7 | -446.9 | 611.0 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 12.70 | 313.00 | 3,833.0 | 431.7 | -463.0 | 633.0 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 12.70 | 313.00 | 3,930.6 | 446.7 | -479.0 | 655.0 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 12.70 | 313.00 | 4,028.1 | 461.7 | -495.1 | 677.0 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 12.70 | 313.00 | 4,125.7 | 476.7 | -511.2 | 699.0 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 12.70 | 313.00 | 4,223.2 | 491.7 | -527.3 | 721.0 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 12.70 | 313.00 | 4,320.8 | 506.7 | -543.4 | 743.0 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 12.70 | 313.00 | 4,418.3 | 521.7 | -559.5 | 765.0 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 12.70 | 313.00 | 4,515.9 | 536.7 | -575.5 | 787.0 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 12.70 | 313.00 | 4,613.4 | 551.7 | -591.6 | 809.0 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 12.70 | 313.00 | 4,711.0 | 566.7 | -607.7 | 830.9 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 12.70 | 313.00 | 4,808.5 | 581.7 | -623.8 | 852.9 | 0.00 | 0.00 | 0.00 |
| 4,942.5 | 12.70 | 313.00 | 4,850.0 | 588.1 | -630.6 | 862.3 | 0.00 | 0.00 | 0.00 |
| **U-7-9-16 TGT** | | | | | | | | | |
| 5,000.0 | 12.70 | 313.00 | 4,906.1 | 596.7 | -639.9 | 874.9 | 0.00 | 0.00 | 0.00 |

NEWFIELD

# PayZone Directional Services, LLC.

Planning Report

PAYZONE DIRECTIONAL

| | | | |
|---|---|---|---|
| **Database:** | EDM 2003.21 Single User Db | **Local Co-ordinate Reference:** | Well U-7-9-16 |
| **Company:** | NEWFIELD EXPLORATION | **TVD Reference:** | U-7-9-16 @ 6028.0ft (Newfield Rig) |
| **Project:** | USGS Myton SW (UT) | **MD Reference:** | U-7-9-16 @ 6028.0ft (Newfield Rig) |
| **Site:** | SECTION 17 T9, R16 | **North Reference:** | True |
| **Well:** | U-7-9-16 | **Survey Calculation Method:** | Minimum Curvature |
| **Wellbore:** | Wellbore #1 | | |
| **Design:** | Design #1 | | |

**Planned Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 5,100.0 | 12.70 | 313.00 | 5,003.6 | 611.7 | -656.0 | 896.9 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 12.70 | 313.00 | 5,101.2 | 626.7 | -672.0 | 918.9 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 12.70 | 313.00 | 5,198.7 | 641.7 | -688.1 | 940.9 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 12.70 | 313.00 | 5,296.3 | 656.7 | -704.2 | 962.9 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 12.70 | 313.00 | 5,393.8 | 671.7 | -720.3 | 984.9 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 12.70 | 313.00 | 5,491.4 | 686.7 | -736.4 | 1,006.9 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 12.70 | 313.00 | 5,588.9 | 701.7 | -752.5 | 1,028.9 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 12.70 | 313.00 | 5,686.5 | 716.7 | -768.6 | 1,050.9 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 12.70 | 313.00 | 5,784.0 | 731.7 | -784.6 | 1,072.9 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 12.70 | 313.00 | 5,881.6 | 746.7 | -800.7 | 1,094.9 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 12.70 | 313.00 | 5,979.2 | 761.7 | -816.8 | 1,116.9 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 12.70 | 313.00 | 6,076.7 | 776.7 | -832.9 | 1,138.8 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 12.70 | 313.00 | 6,174.3 | 791.7 | -849.0 | 1,160.8 | 0.00 | 0.00 | 0.00 |
| 6,387.9 | 12.70 | 313.00 | 6,260.0 | 804.9 | -863.1 | 1,180.2 | 0.00 | 0.00 | 0.00 |



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API Well Number: 43013506990000

NEWFIELD

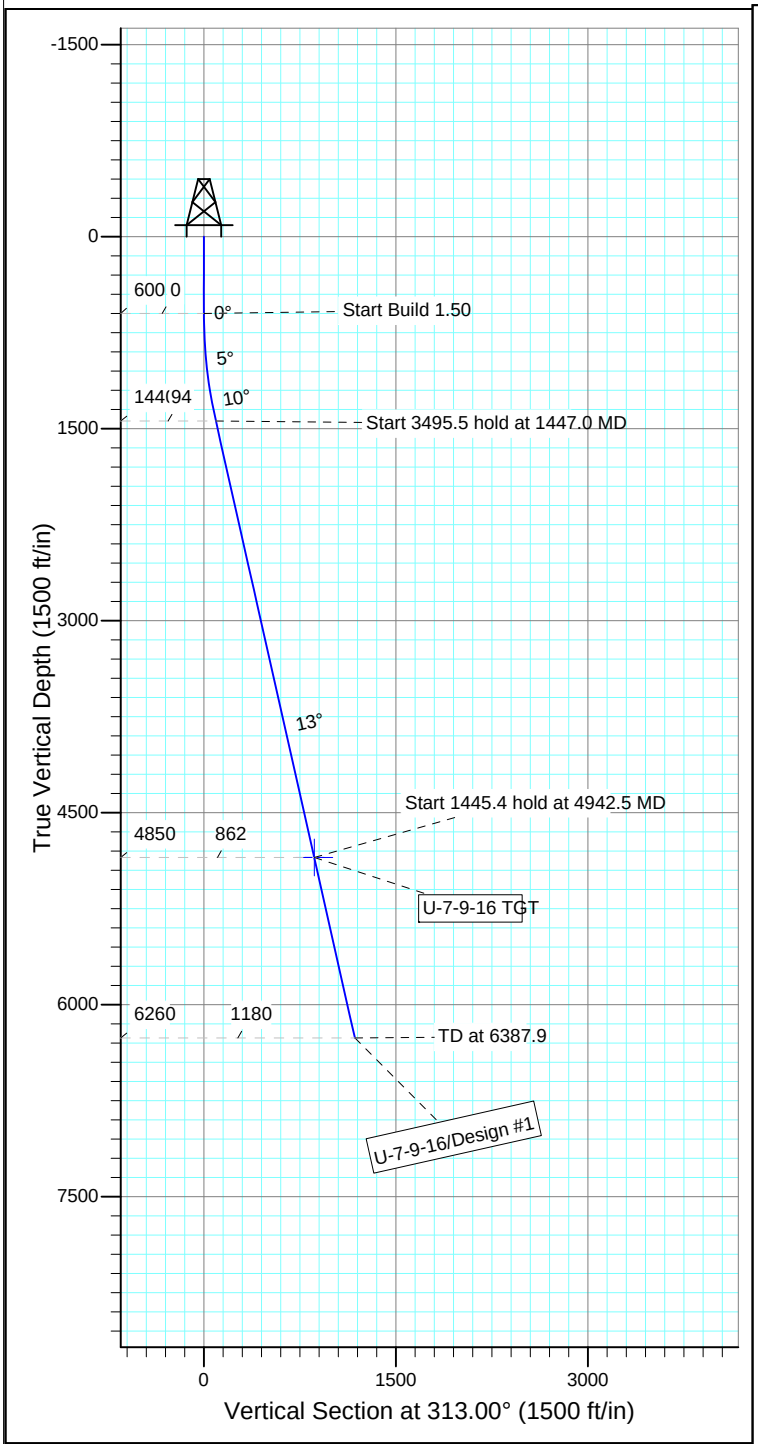
Project: USGS Myton SW (UT)
Site: SECTION 17 T9, R16
Well: U-7-9-16
Wellbore: Wellbore #1
Design: Design #1

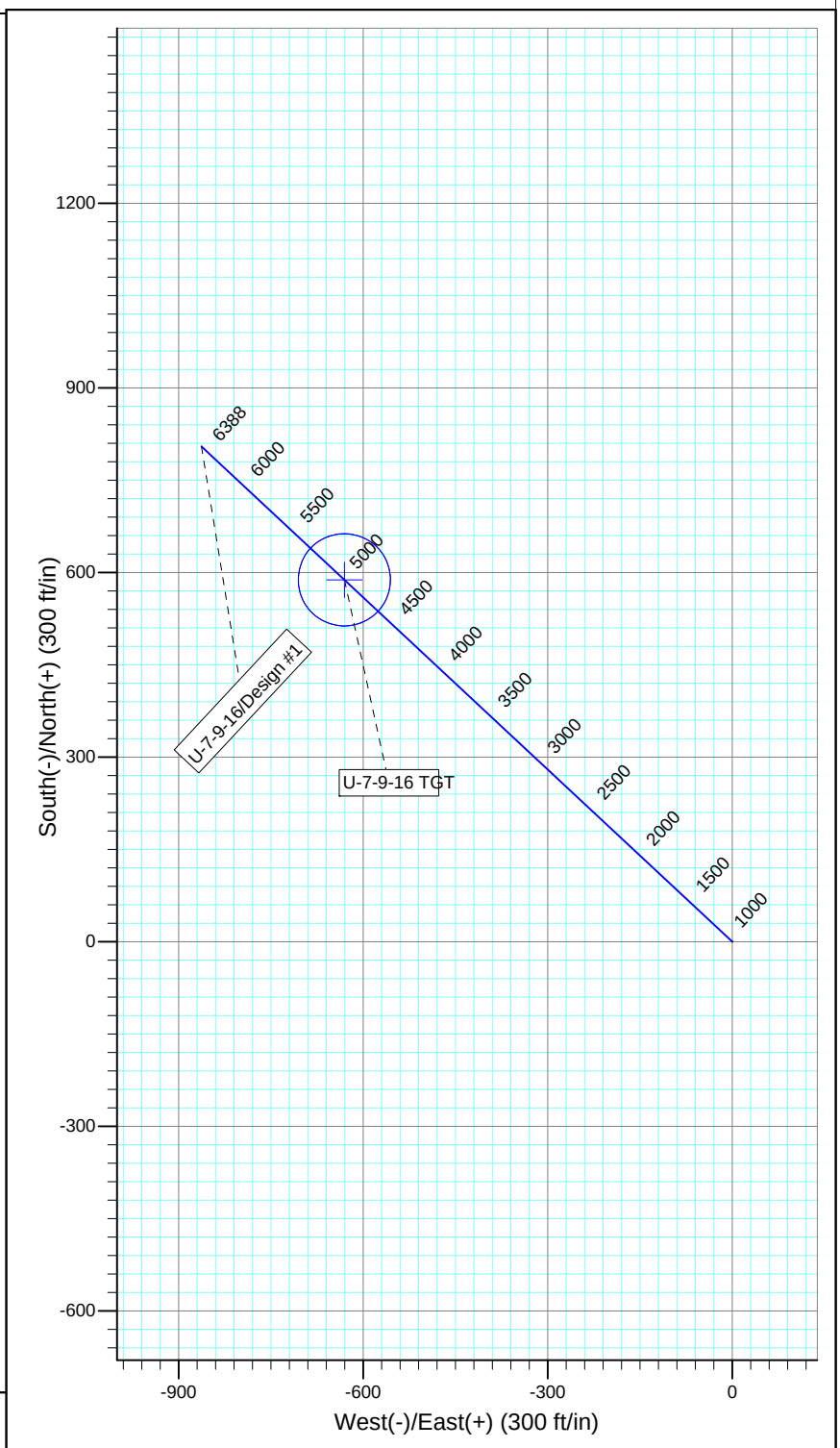
T M

Azimuths to True North
Magnetic North: 11.40°

Magnetic Field
Strength: 52294.8snT
Dip Angle: 65.78°
Date: 2010/12/29
Model: IGRF2010

KOP @ 600'
DOGLEG RATE 1.5 DEG/100
TARGET RADIUS IS 75'




WELLBORE TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Shape |
|---|---|---|---|---|
| U-7-9-16 TGT | 4850.0 | 588.1 | -630.6 | Circle (Radius: 75.0) |

PAYZONE DIRECTIONAL

SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | DLeg | TFace | VSec | Target |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 2 | 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 1447.0 | 12.70 | 313.00 | 1440.1 | 63.8 | -68.4 | 1.50 | 313.00 | 93.5 | |
| 4 | 4942.5 | 12.70 | 313.00 | 4850.0 | 588.1 | -630.6 | 0.00 | 0.00 | 862.3 | U-7-9-16 TGT |
| 5 | 6387.9 | 12.70 | 313.00 | 6260.0 | 804.9 | -863.1 | 0.00 | 0.00 | 1180.2 | |

**NEWFIELD PRODUCTION COMPANY**
**GMBU U-7-9-16**
**AT SURFACE: NW/NW SECTION 17, T9S, R16E**
**DUCHESNE COUNTY, UTAH**

# ONSHORE ORDER NO. 1

## *MULTI-POINT SURFACE USE & OPERATIONS PLAN*

### *1. EXISTING ROADS*

See attached Topographic Map "A"

To reach Newfield Production Company well location site GMBU U-7-9-16 located in the NW 1/4 NW 1/4 Section 17, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.4 miles ± to the junction of this highway and UT State Hwy 53; proceed in a southeasterly direction – 6.2 miles ± to it's junction with an existing dirt road to the southwest; proceed in a southwesterly direction – 7.4 miles ± to it's junction with an existing road to the east; proceed easterly – 0.2 miles ± to the existing 4-17-9-16 well lcoation.

The aforementioned dirt oil field service roads and other roads in the vicinity are constructed out of existing native materials that are prevalent to the existing area they are located in and range from clays to a sandy-clay shale material.

The roads for access during the drilling, completion and production phase will be maintained at the standards required by the State of Utah, or other controlling agencies. This maintenance will consist of some minor grader work for smoothing road surfaces and for snow removal. Any necessary fill material for repair will be purchase and hauled from private sources.

### *2. PLANNED ACCESS ROAD*

There is no proposed access road for this location. The proposed well will be drilled directionaly off of the existing 4-17-9-16 well pad. See attached **Topographic Map "B"**.

There will be **no** culverts required along this access road. There will be barrow ditches and turnouts as needed along this road.

There are no fences encountered along this proposed road. There will be no new gates or cattle guards required.

All construction material for this access road will be borrowed material accumulated during construction of the access road.

### *3. LOCATION OF EXISTING WELLS*

Refer to Exhibit "B".

### *4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES*

There are no existing facilities that will be used by this well.

It is anticipated that this well will be a producing oil well.

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Upon construction of a tank battery, the well pad will be surrounded by a dike of sufficient capacity to contain at minimum 110% of the largest tank volume within the facility battery.

Tank batteries will be built to State specifications.

All permanent (on site for six (6) months or longer) structures, constructed or installed (including pumping units), will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six months of installation.

***5. LOCATION AND TYPE OF WATER SUPPLY***

Newfield Production will transport water by truck from nearest water source as determined by a Newfield representative for the purpose of drilling the above mentioned well. The available water sources are as follows:

Johnson Water District
Water Right : 43-10136

Maurice Harvey Pond
Water Right: 47-1358

Neil Moon Pond
Water Right: 43-11787

Newfield Collector Well
Water Right: 47-1817 (A30414DVA, contracted with the Duchesne County Conservancy District).

There will be no water well drilled at this site.

***6. SOURCE OF CONSTRUCTION MATERIALS***

All construction material for this location shall be borrowed material accumulated during construction of the location site and access road.

A mineral material application is not required for this location.

***7. METHODS FOR HANDLING WASTE DISPOSAL***

A small reserve pit (90' x 40' x 8' deep, or less) will be constructed from native soil and clay materials. The reserve pit will receive the processed drill cutting (wet sand, shale & rock) removed from the wellbore. Any drilling fluids, which do accumulate in the pit as a result of shale-shaker carryover, cleaning of the sand trap, etc., will be promptly reclaimed. All drilling fluids will be fresh water based, typically containing Total Dissolved Solids of less than 3000 PPM. No potassium chloride, chromates, trash, debris, nor any other substance deemed hazardous will be placed in this pit. Therefore, it is proposed that no synthetic liner be required in the reserve pit. However, if upon constructing the pit there is insufficient fine clay and silt present, a liner will be used for the purpose of reducing water loss through percolation.

Newfield requests approval that a flare pit not be constructed or utilized on this location.

A portable toilet will be provided for human waste.

A trash basket will be provided for garbage (trash) and hauled away to an approved disposal site at the completion of the drilling activities.

***8. ANCILLARY FACILITIES***

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There are no ancillary facilities planned for at the present time and none foreseen in the near future.

***9.*** ***WELL SITE LAYOUT***

See attached Location Layout Sheet.

**Fencing Requirements**

All pits will be fenced according to the following minimum standards:

a) A 39-inch net wire shall be used with at least one strand of barbed wire on top of the net.

b) The net wire shall be no more than two (2) inches above the ground. The barbed wire shall be three (3) inches above the net wire. Total height of the fence shall be at least forty-two (42) inches.

c) Corner posts shall be centered and/or braced in such a manner to keep tight at all times

d) Standard steel, wood or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than sixteen (16) feet.

e) All wire shall be stretched, by using a stretching device, before it is attached to the corner posts.

The reserve pit fencing will be on three (3) sides during drilling operations and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Existing fences to be crossed by the access road will be braced and tied off before cutting so as to prevent slacking in the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and upon completion of construction the fence shall be repaired to BLM specifications.

10. **PLANS FOR RESTORATION OF SURFACE**:

a) Producing Location

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, material, trash and junk not required for production.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximated natural contours. Weather permitting, the reserve pit will be reclaimed within one hundred twenty (120) days from the date of well completion. Before any dirt work takes place, the reserve pit must have all fluids and hydrocarbons removed.

b) Dry Hole Abandoned Location

At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment and the State of Utah will attach the appropriate surface rehabilitation conditions of approval.

***11.*** ***SURFACE OWNERSHIP*** – Bureau of Land Management.

***12.*** ***OTHER ADDITIONAL INFORMATION***

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #11-055, 4/13/11. Paleontological Resource Survey prepared by, Wade E. Miller, 4/23/11. See attached report cover pages, Exhibit “D”.

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Newfield Production Company requests 107' of buried water line to be granted in Lease UTU-74390.

It is proposed that the disturbed area will be 30' wide to allow for construction of the proposed buried 10" steel water injection line and a buried 3" poly water return line. The proposed buried water lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** The proposed water pipelines will be buried in a 4-5' deep trench constructed with a trencher or backhoe for the length of the proposal. The equipment will run on the surface and not be flat bladed to minimize surface impacts to precious topsoil in these High Desert environments. If possible, all proposed surface gas pipelines will be installed on the same side of the road as existing gas lines. The construction phase of the proposed water lines will last approximately (5) days.

In the event that the proposed well is converted to a water injection well, a Sundry Notice 3160-5 form will be applied for through the Bureau of Land Management field office.

For a ROW plan of development, please refer to the Greater Monument Butte Green River Development SOP and as well as the Castle Peak and Eight Mile Flat Reclamation and Weed Management Plan

**Surface Flow Line**
Newfield requests 156' of surface flow line be granted. The Surface Flow Line will consist of up to a 14" bundled pipe consisting of 2-2" poly glycol lines and 1-3" production line. For all new wells, Newfield. **Refer to Topographic Map "C"** for the proposed location of the proposed flow line. Flow lines will be tan and will be constructed using the following procedures:

Clearing and Grading: No clearing or grading of the ROW will be required. The centerline of the proposed route will be staked prior to installation. Flow lines shall be placed as close to existing roads as possible without interfering with normal road travel or road maintenance activities. Due to the proximity of existing facilities, no temporary use or construction/storage areas are anticipated. If necessary, temporary use or construction/storage areas will be identified on a topographic map included in the approved permit.

Installation: The proposed flow lines will be installed 4-6" above the ground. For portions along existing two-track and primary access roads, lengths of pipe will be strung out in the borrow ditch, welded together, and rolled or dragged into place with heavy equipment. For pipelines that are installed cross-country (not along existing or proposed roads), travel along the lines will be infrequent and for maintenance needs only. No installation activities will be performed during periods when the soil is too wet to adequately support installation equipment. If such equipment creates ruts in excess of three (3) inches deep, the soil will be deemed too wet to adequately support the equipment.

Termination and Final Reclamation: After abandonment of the associated production facilities, the flow lines will be cut and removed, and any incidental surface disturbance reclaimed. Reclamation procedures will follow those outlined in the Castle Peak and Eight Mile Flat Reclamation and Weed Management Plan.

**Water Disposal**
After first production, if the production water meets quality guidelines, it will be transported to the Ashley, Monument Butte, Jonah, South Wells Draw and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project. Water not meeting quality criteria, will be disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E), Federally approved surface disposal facilities or at a State of Utah approved surface disposal facilities.

**Additional Surface Stipulations**
All lease and/or unit operations will be conducted in such a manner that full compliance is made

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with all applicable laws and regulations, Onshore Oil and Gas Orders, the approved plan of operations and any applicable Notice to Lessees. A copy of these conditions will be furnished to the field representative to ensure compliance.

**Details of the On-Site Inspection**
The proposed GMBU U-7-9-16 was on-sited on 2/24/11. The following were present; Tim Eaton (Newfield Production), Christine Cimiluca (Bureau of Land Management), and Suzanne Grayson (Bureau of Land Management).

**Hazardous Material Declaration**

Newfield Production Company guarantees that during the drilling and completion of the GMBU U-7-9-16, Newfield will not use, produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986. Newfield also guarantees that during the drilling and completion of the GMBU U-7-9-16, Newfield will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

A complete copy of the approved APD, if applicable, shall be on location during the construction of the location and drilling activities.

Newfield Production Company or a contractor employed by Newfield Production shall contact the State office at (801) 722-3417, 48 hours prior to construction activities.

13. **LESSEE'S OR OPERATOR'S REPRENSENTATIVE AND CERTIFICATION:**

Representative

Name: Tim Eaton
Address: Newfield Production Company
Route 3, Box 3630
Myton, UT 84052
Telephone: (435) 646-3721

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #U-7-9-16, Section 17, Township 9S, Range 16E: Lease UTU-74390 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by, Federal Bond #WYB000493.

I hereby certify that the proposed drill site and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

4/27/11
Date

Mandie Crozier
Regulatory Specialist
Newfield Production Company

RECEIVED: May. 12, 2011

API Well Number: 43013506990000

# 2-M SYSTEM

Blowout Prevention Equipment Systems

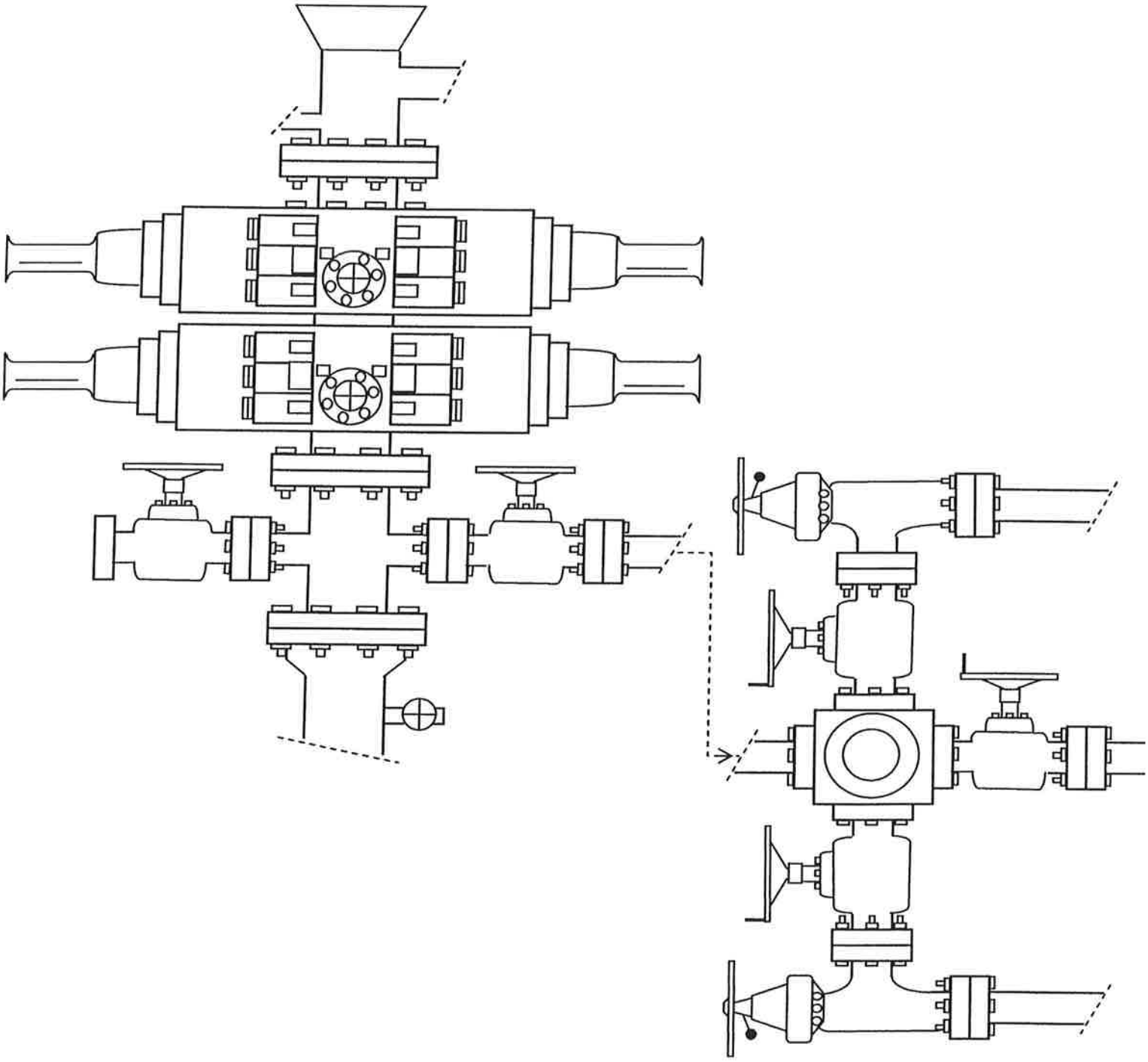


**EXHIBIT C**

**RECEIVED:** May. 12, 2011

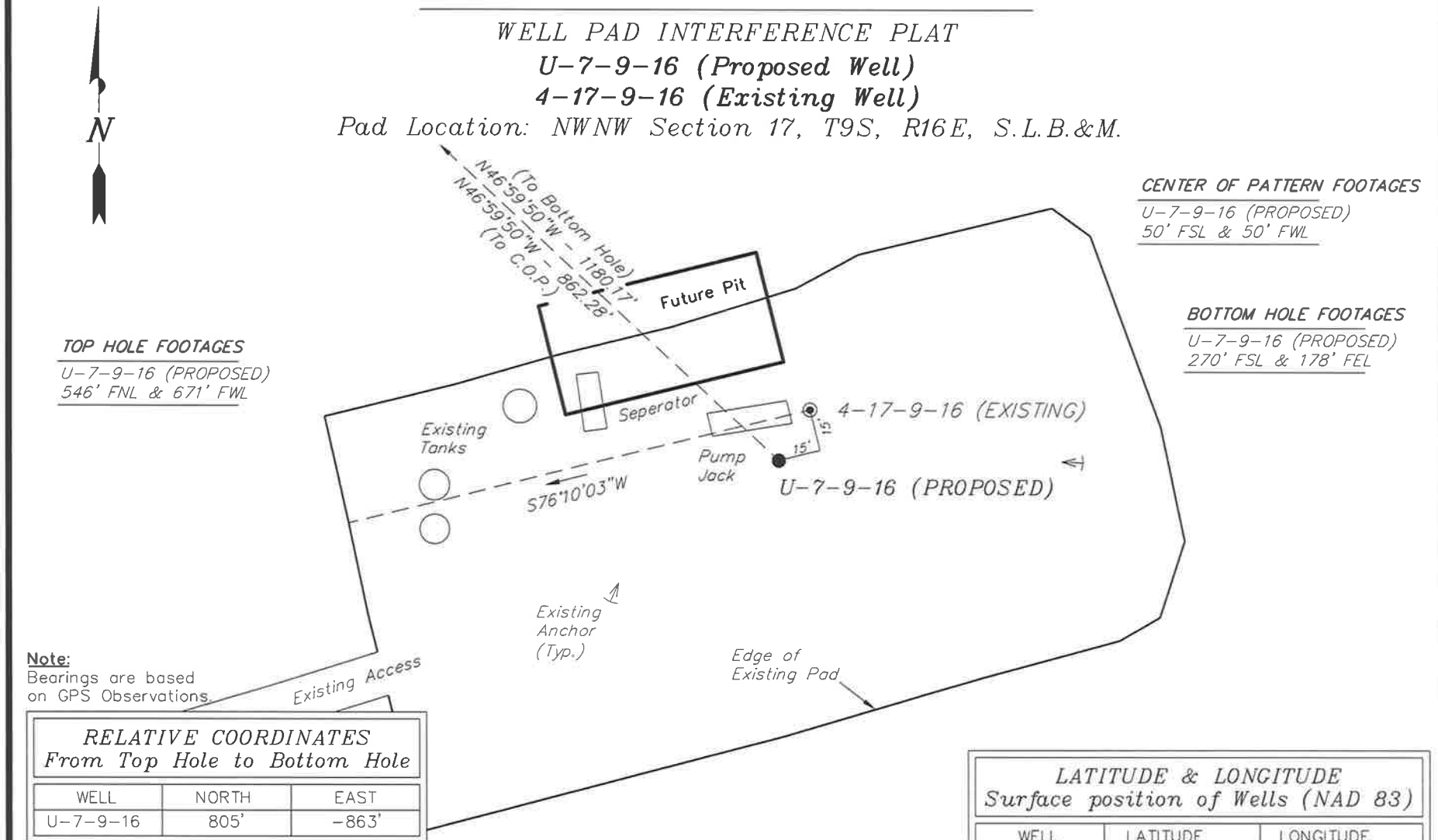
# NEWFIELD EXPLORATION COMPANY

## WELL PAD INTERFERENCE PLAT

**U-7-9-16 (Proposed Well)**

**4-17-9-16 (Existing Well)**

Pad Location: NWNW Section 17, T9S, R16E, S.L.B.&M.




**CENTER OF PATTERN FOOTAGES**
U-7-9-16 (PROPOSED)
50' FSL & 50' FWL

**BOTTOM HOLE FOOTAGES**
U-7-9-16 (PROPOSED)
270' FSL & 178' FEL

**TOP HOLE FOOTAGES**
U-7-9-16 (PROPOSED)
546' FNL & 671' FWL

**Note:**
Bearings are based on GPS Observations.

### RELATIVE COORDINATES From Top Hole to Bottom Hole

| WELL | NORTH | EAST |
|---|---|---|
| U-7-9-16 | 805' | -863' |

### RELATIVE COORDINATES From Top Hole to C.O.P.

| WELL | NORTH | EAST |
|---|---|---|
| U-7-9-16 | 588' | -631' |

### LATITUDE & LONGITUDE Surface position of Wells (NAD 83)

| WELL | LATITUDE | LONGITUDE |
|---|---|---|
| U-7-9-16 | 40° 02' 12.00" | 110° 09' 00.85" |
| 4-17-9-16 | 40° 02' 12.17" | 110° 09' 00.70" |

| | | | |
|---|---|---|---|
| SURVEYED BY: | T.P. | DATE SURVEYED: | 11-01-10 |
| DRAWN BY: | M.W. | DATE DRAWN: | 01-19-11 |
| SCALE: | 1" = 50' | REVISED: | |


Tri State Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
(435) 781-2501

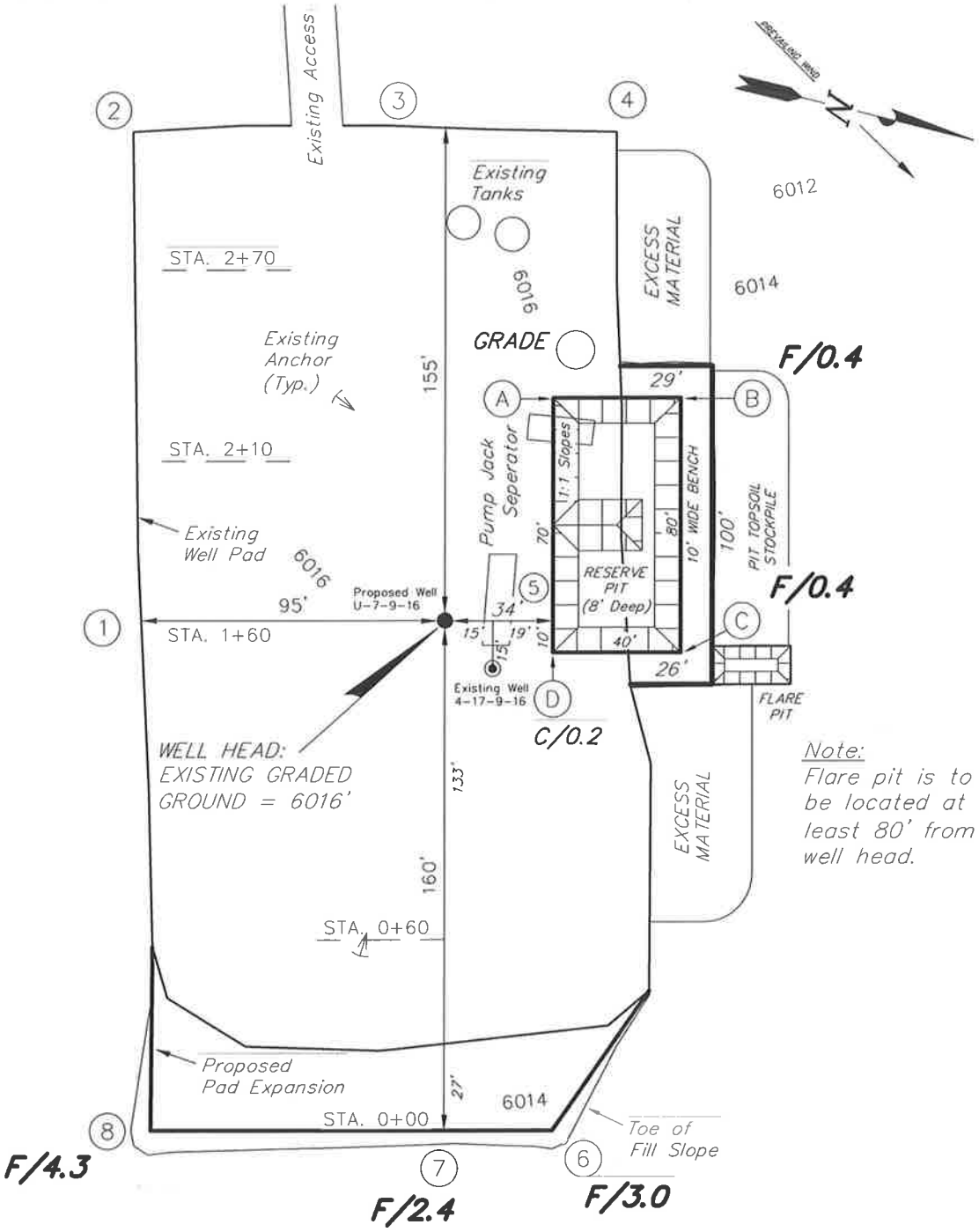
# NEWFIELD EXPLORATION COMPANY

## LOCATION LAYOUT

**U-7-9-16 (Proposed Well)**

**4-17-9-16 (Existing Well)**

Pad Location: NWNW Section 17, T9S, R16E, S.L.B.&M.




Note:
Flare pit is to be located at least 80' from well head.

| | | | |
|---|---|---|---|
| SURVEYED BY: T.P. | DATE SURVEYED: 11-01-10 | Tri State Land Surveying, Inc. | (435) 781-2501 |
| DRAWN BY: M.W. | DATE DRAWN: 01-19-11 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 | |
| SCALE: 1" = 50' | REVISED: | | |

RECEIVED: May. 12, 2011

# NEWFIELD EXPLORATION COMPANY

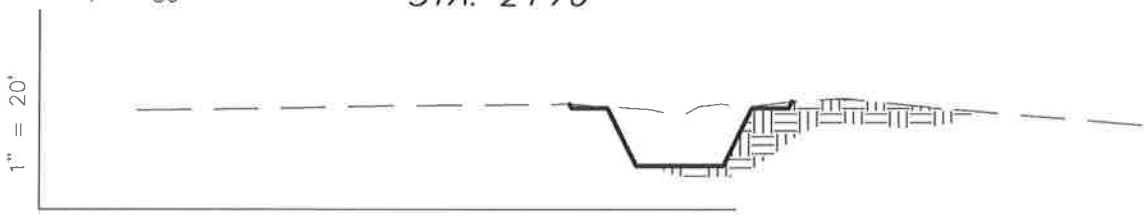
## CROSS SECTIONS

**U-7-9-16 (Proposed Well)**

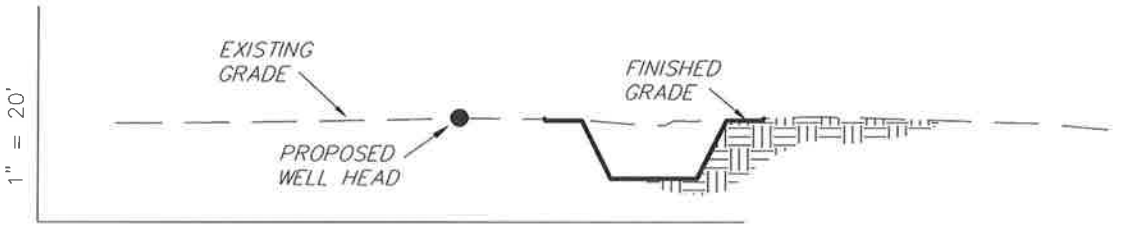
**4-17-9-16 (Existing Well)**

Pad Location: NWNW Section 17, T9S, R16E, S.L.B.&M.


STA. 2+70

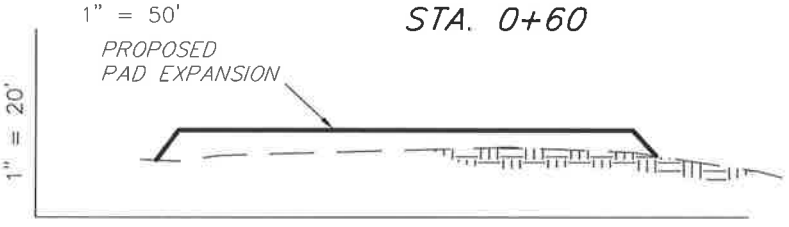



STA. 2+10




STA. 1+60


STA. 0+60




STA. 0+00

**ESTIMATED EARTHWORK QUANTITIES**
**(No Shrink or swell adjustments have been used)**
(Expressed in Cubic Yards)

| ITEM | CUT | FILL | 6" TOPSOIL | EXCESS |
|---|---|---|---|---|
| PAD | 0 | 280 | Topsoil is not included in Pad Cut | -280 |
| PIT | 640 | 0 | | 640 |
| TOTALS | 640 | 280 | 120 | 360 |

NOTE:
UNLESS OTHERWISE NOTED
CUT SLOPES ARE AT 1:1
FILL SLOPES ARE AT 1.5:1

| | | | |
|---|---|---|---|
| SURVEYED BY: T.P. | DATE SURVEYED: | 11-01-10 | |
| DRAWN BY: M.W. | DATE DRAWN: | 01-19-11 | |
| SCALE: 1" = 50' | REVISED: | | |

Tri State Land Surveying, Inc. (435) 781-2501
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

RECEIVED: May. 12, 2011

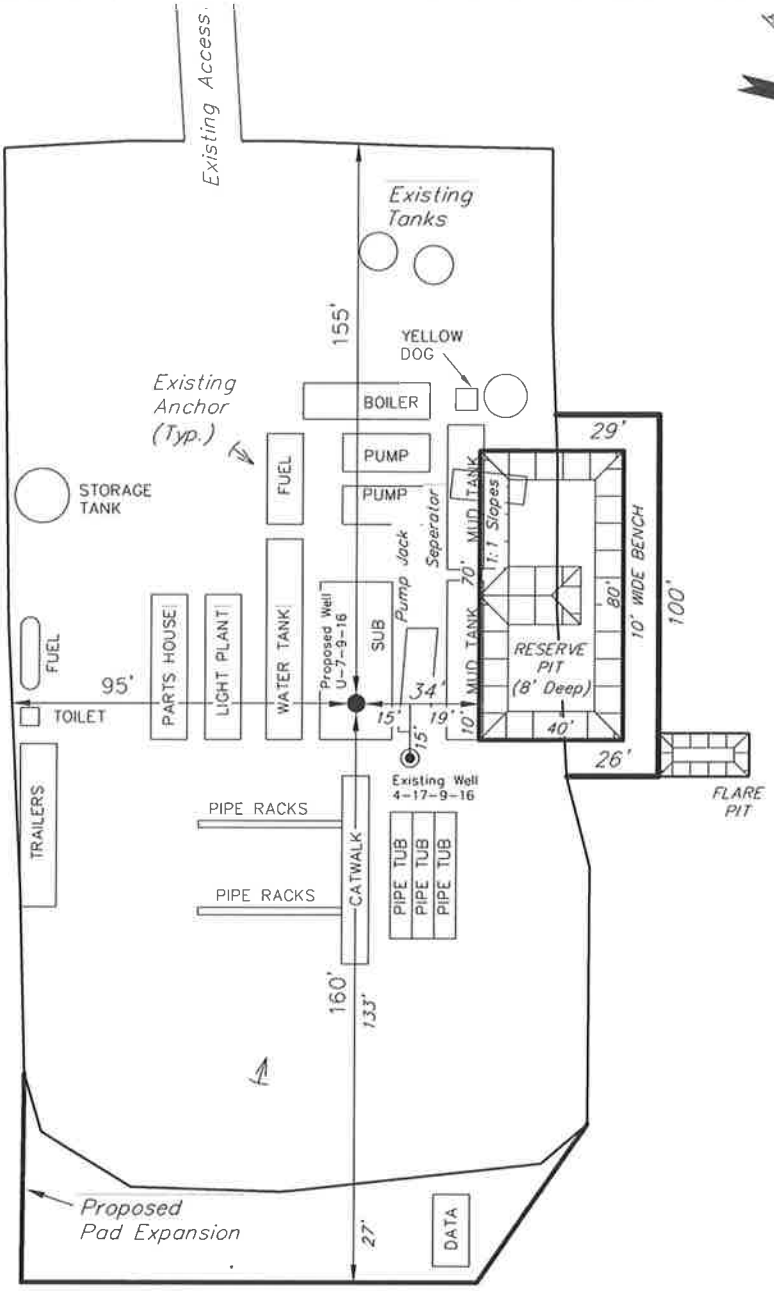
# NEWFIELD EXPLORATION COMPANY

## TYPICAL RIG LAYOUT

**U-7-9-16 (Proposed Well)**

**4-17-9-16 (Existing Well)**

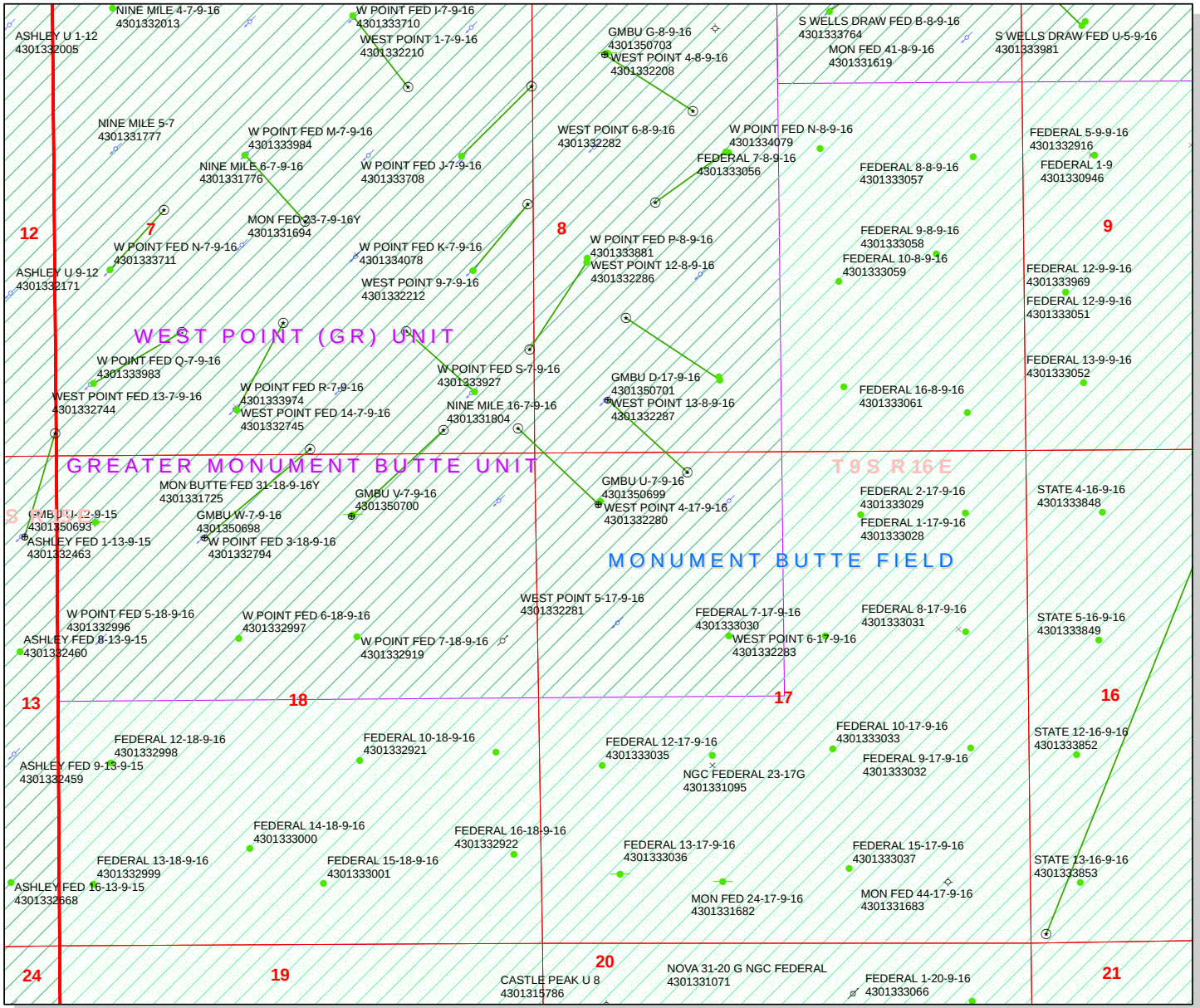
Pad Location: NWNW Section 17, T9S, R16E, S.L.B.&M.




| | | | |
|---|---|---|---|
| SURVEYED BY: T.P. | DATE SURVEYED: 11-01-10 | Tri State Land Surveying, Inc. | (435) 781-2501 |
| DRAWN BY: M.W. | DATE DRAWN: 01-19-11 | 180 NORTH VERNAL AVE. VERNAL, UTAH 84078 | |
| SCALE: 1" = 50' | REVISED: | | |

**RECEIVED:** May. 12, 2011

API Well Number: 43013506990000




**API Number: 4301350699**

**Well Name: GMBU U-7-9-16**

**Township T0.9 . Range R1.6 . Section 17**

**Meridian: SLBM**

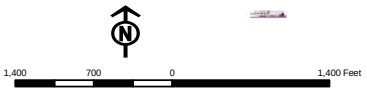
Operator: NEWFIELD PRODUCTION COMPANY

Map Prepared:
Map Produced by Diana Mason

**Units**
STATUS
ACTIVE
EXPLORATORY
GAS STORAGE
NF PP OIL
NF SECONDARY
PI OIL
PP GAS
PP GEOTHERML
PP OIL
SECONDARY
TERMINATED

**Fields**
STATUS
Unknown
ABANDONED
ACTIVE
COMBINED
INACTIVE
STORAGE
TERMINATED
Sections
Township

**Wells Query**
Status
APD - Aproved Permit
DRL - Spuded (Drilling Commenced)
GIW - Gas Injection
GS - Gas Storage
LA - Location Abandoned
LOC - New Location
OPS - Operation Suspended
PA - Plugged Abandoned
PGW - Producing Gas Well
POW - Producing Oil Well
RET - Returned APD
SGW - Shut-in Gas Well
SOW - Shut-in Oil Well
TA - Temp. Abandoned
TW - Test Well
WDW - Water Disposal
WIW - Water Injection Well
WSW - Water Supply Well


1:13,324

**RECEIVED: May. 12, 2011**

NEWFIELD
ROCKY MOUNTAINS

*VIA ELECTRONIC DELIVERY*

May 11, 2011

State of Utah, Division of Oil, Gas and Mining
ATTN: Diana Mason
P.O. Box 145801
Salt Lake City, UT 84114-5801

RE: Directional Drilling
**GMBU U-7-9-16**
Greater Monument Butte (Green River) Unit

Surface Hole: T9S-R16E Section 17: NWNW (UTU-74390)
546' FNL 671' FWL

At Target: T9S-R16E Section 7: SESE (UTU-74390)
270' FSL 178' FEL

Duchesne County, Utah

Dear Ms. Mason:

Pursuant to the filing by Newfield Production Company (NPC) of an Application for Permit to Drill the above referenced well dated 4/28/11, a copy of which is attached, and in accordance with Oil and Gas Conservation Rule R649-3-11, NPC hereby submits this letter as notice of our intention to directionally drill this well.

The surface hole and target locations of this well are both within the boundaries of the Greater Monument Butte Unit (UTU-87538X), of which Newfield certifies that it is the operator. Further, Newfield certifies that all lands within 460 feet of the entire directional well bore are within the Greater Monument Butte Unit.

NPC is permitting this well as a directional well in order to mitigate surface disturbance by utilizing pre-exiting roads and pipelines.

NPC hereby requests our application for permit to drill be granted pursuant to R649-3-11. If you have any questions or require further information, please contact the undersigned at 303-383-4197 or by email at sgillespie@newfield.com. Your consideration in this matter is greatly appreciated.

Sincerely,
Newfield Production Company

Shane Gillespie
Land Associate

1001 17th Street, Suite 2000 Denver, CO 80202 (303) 893-0102 Fax (303) 893-0103

RECEIVED: May. 12, 2011

Form 3160-3
(August 2007)

FORM APPROVED
OMB No 1004-0137
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

# APPLICATION FOR PERMIT TO DRILL OR REENTER

5 Lease Serial No.
UTU-74390

6. If Indian, Allotee or Tribe Name
NA

1a. Type of work: ☑ DRILL ☐ REENTER

7 If Unit or CA Agreement, Name and No.
Greater Monument Butte

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.
GMBU U-7-9-16

2. Name of Operator Newfield Production Company

9. API Well No.

3a. Address Route #3 Box 3630, Myton UT 84052

3b. Phone No. *(include area code)*
(435) 646-3721

10. Field and Pool, or Exploratory
Monument Butte

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface NW/NW 546' FNL 671' FWL Sec. 17, T9S R16E (UTU-74390)
At proposed prod. zone SE/SE 270' FSL 178' FEL Sec. 7, T9S R16E (UTU-74390)

11. Sec., T. R. M. or Blk. and Survey or Area
Sec. 17, T9S R16E

14. Distance in miles and direction from nearest town or post office*
Approximately 15.2 miles southwest of Myton, UT

12. County or Parish
Duchesne

13. State
UT

| 15 Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any) Approx. 2818' f/lse, NA f/unit | 16. No. of acres in lease 2,037.19 | 17 Spacing Unit dedicated to this well 20 Acres |
|---|---|---|
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 872' | 19 Proposed Depth 6,388' | 20 BLM/BIA Bond No. on file WYB000493 |
| 21 Elevations (Show whether DF, KDB, RT, GL, etc.) 6016' GL | 22 Approximate date work will start* 3rd Qtr 2011 | 23. Estimated duration (7) days from SPUD to rig release |

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

| 25. Signature | Name *(Printed Typed)* | Date |
|---|---|---|
| | Mandie Crozier | 4/28/11 |

Title
Regulatory Specialist

| Approved by *(Signature)* | Name *(Printed Typed)* | Date |
|---|---|---|
| Title | Office | |

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

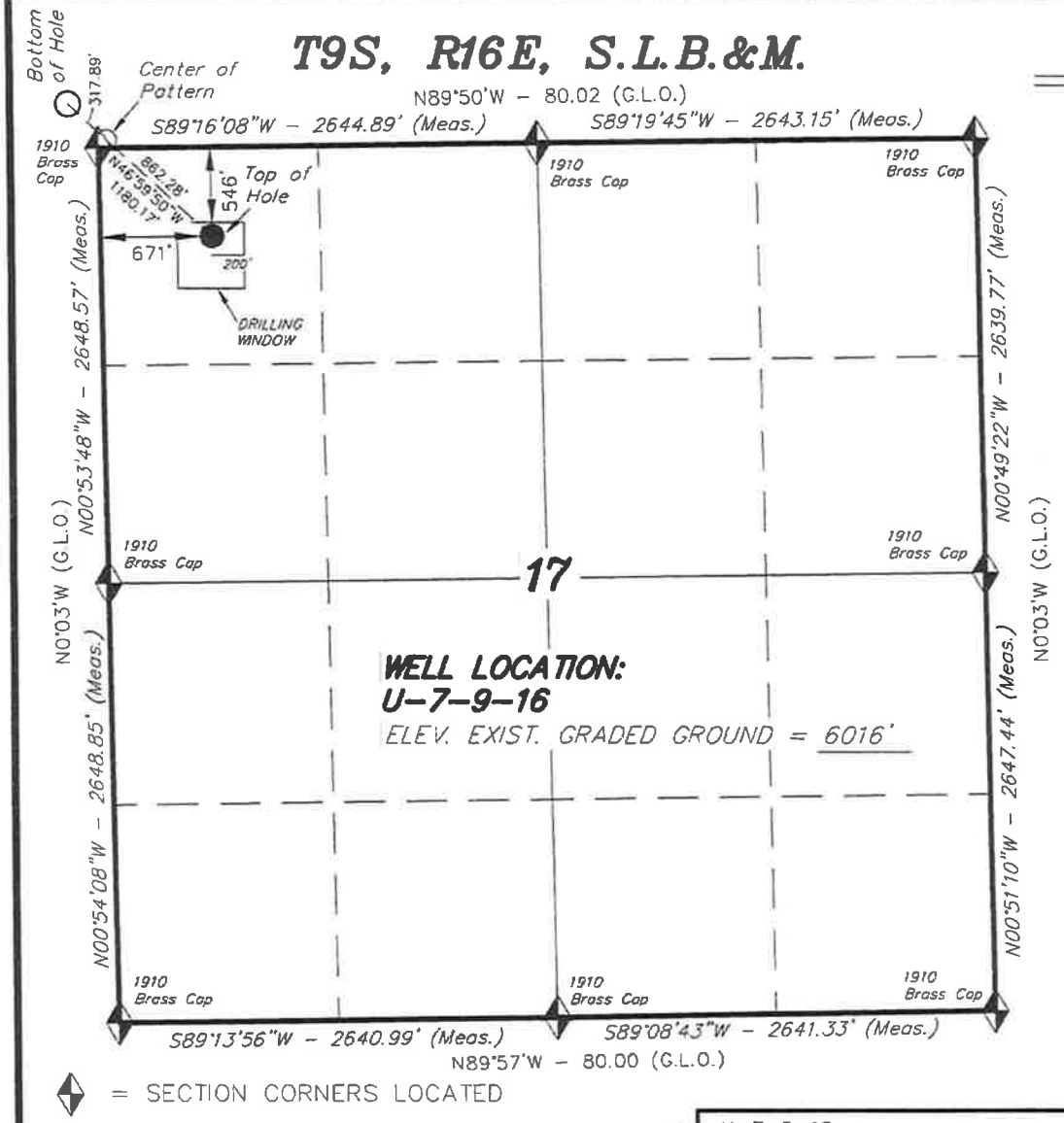
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

RECEIVED: May. 12, 2011

# T9S, R16E, S.L.B.&M.




= SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are base on LOCATION: an N.G.S. OPUS Correction. LAT. 40°04'09.56" LONG. 110°00'43.28" (Tristate Aluminum Cap) Elev. 5281.57'

## NEWFIELD EXPLORATION COMPANY

WELL LOCATION, U-7-9-16, LOCATED AS SHOWN IN THE NW 1/4 NW 1/4 OF SECTION 17, T9S, R16E, S.L.B.&M. DUCHESNE COUNTY, UTAH.



**NOTES:**

1. *Well footages are measured at right angles to the Section Lines.*
2. *Bearings are based on Global Positioning Satellite observations.*
3. *The Center of Pattern footages are 50' FSL & 50' FWL Section 8, T9S, R16E.*

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION No. 189377
STATE OF UTAH

STACY W. STEWART

REGISTERED LAND SURVEYOR
REGISTRATION No.
STATE OF UTAH

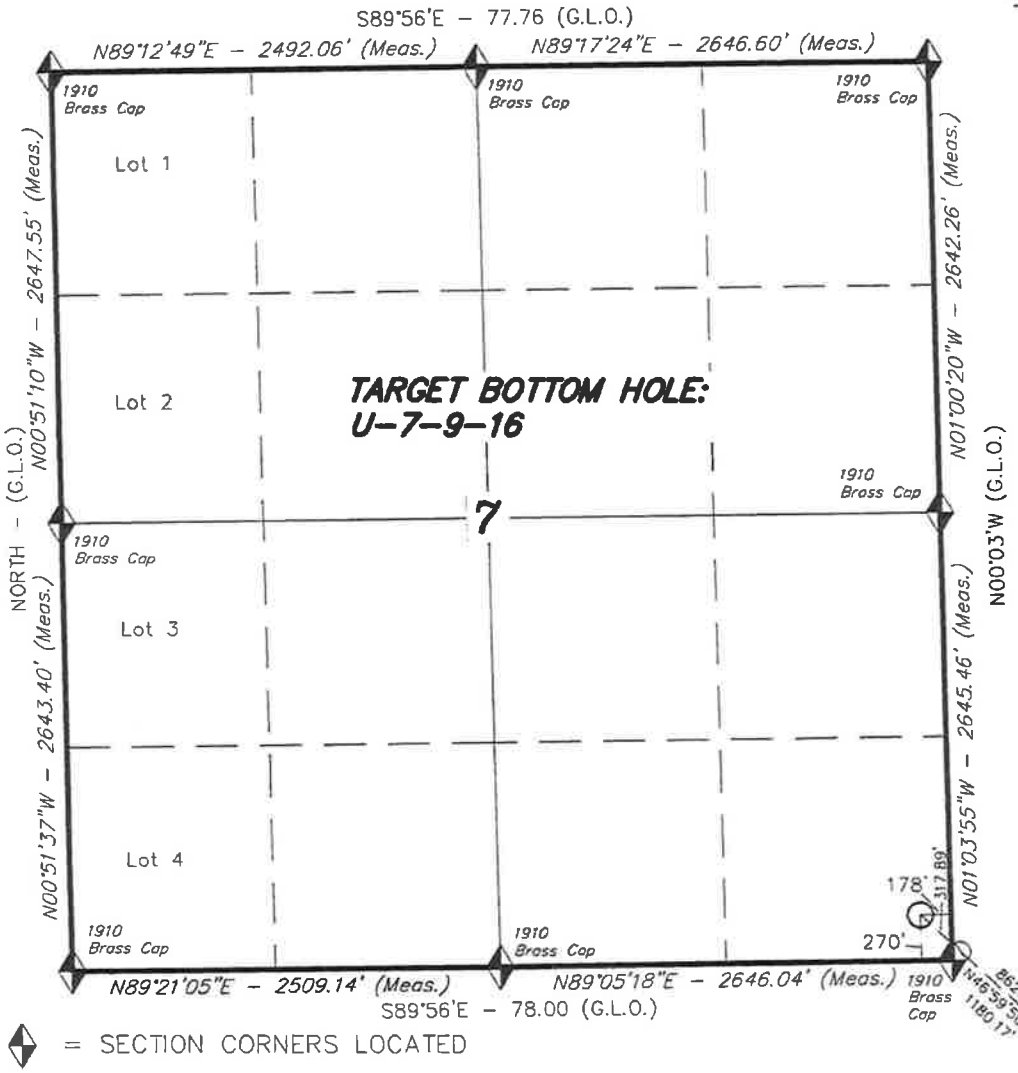
*U-7-9-16*
*(Surface Location)* *NAD 83*
*LATITUDE = 40° 02' 12.00"*
*LONGITUDE = 110° 09' 00.85"*

## TRI STATE LAND SURVEYING & CONSULTING

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
(435) 781-2501

| | |
|---|---|
| DATE SURVEYED: 11-01-10 | SURVEYED BY: T.P. |
| DATE DRAWN: 01-19-11 | DRAWN BY: M.W. |
| REVISED: | SCALE: 1" = 1000' |

# T9S, R16E, S.L.B.&M.




◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; Elevations are base on
LOCATION: an N.G.S. OPUS Correction.
LAT. 40°04'09.56" LONG. 110°00'43.28"
(Tristate Aluminum Cap) Elev. 5281.57'

## NEWFIELD EXPLORATION COMPANY

TARGET BOTTOM HOLE, U-7-9-16,
LOCATED AS SHOWN IN THE SE 1/4 SE
1/4 OF SECTION 7, T9S, R16E,
S.L.B.&M. DUCHESNE COUNTY, UTAH.

1000' 500' 0' 1000'
BAR SCALE

N

NOTES:
1. Well footages are measured at right angles to the Section Lines.
2. Bearings are based on Global Positioning Satellite observations.
3. The Center of Pattern footages are 50' FSL & 50' FWL Section 8, T9S, R16E.

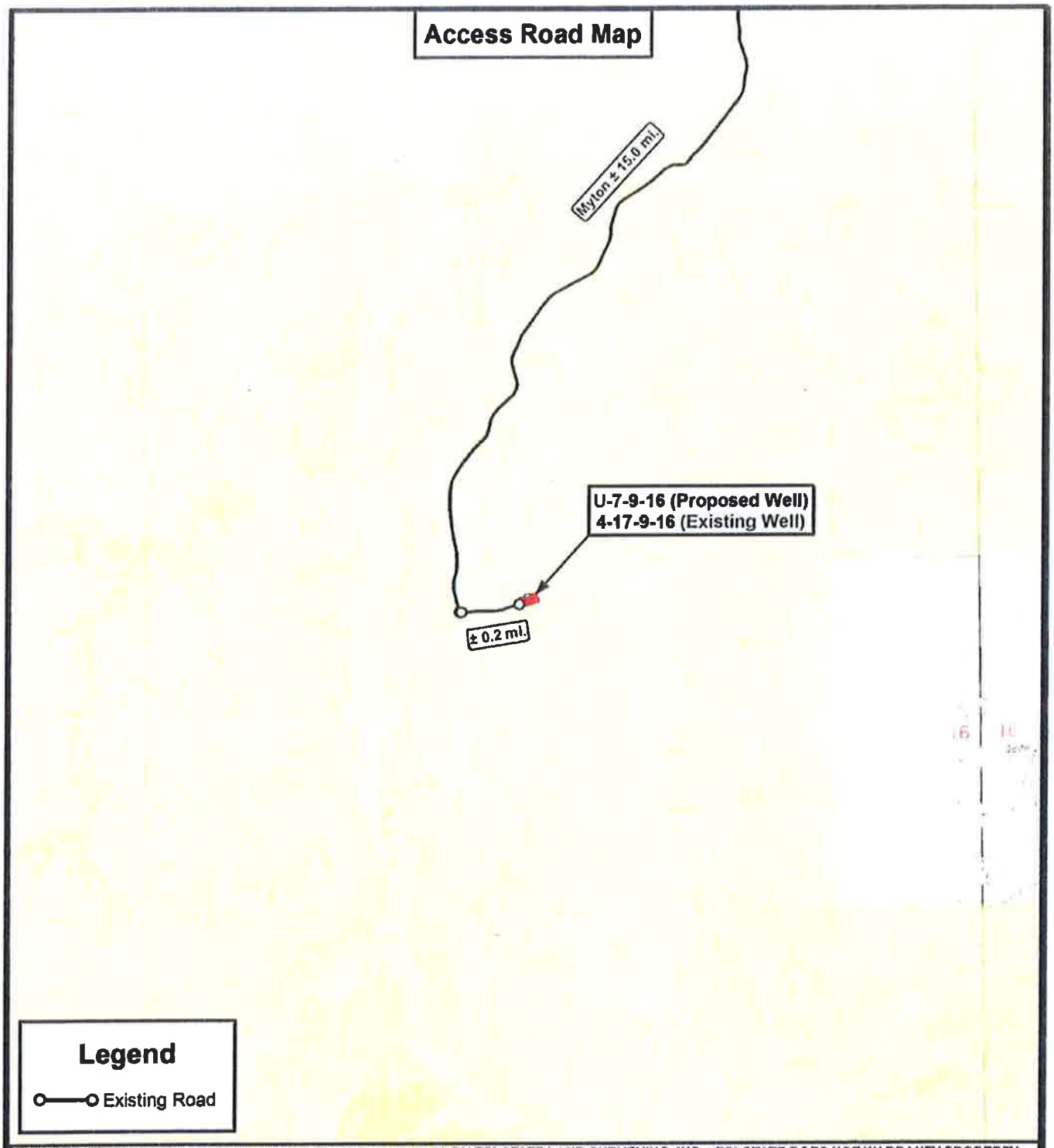
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REG. NO. 189377
REGISTERED LAND SURVEYOR
STACY W. STEWART
REGISTERED LAND SURVEYOR
REGISTRATION No.
STATE OF UTAH
STATE OF UTAH

**TRI STATE LAND SURVEYING & CONSULTING**
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078
(435) 781-2501

| | |
|---|---|
| DATE SURVEYED: 11-01-10 | SURVEYED BY: T.P. |
| DATE DRAWN: 01-19-11 | DRAWN BY: M.W. |
| REVISED: | SCALE: 1" = 1000' |

# Access Road Map




**Legend**

Existing Road

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.

Tri State
Land Surveying, Inc.
180 NORTH VERNAL AVE. VERNAL, UTAH 84078
P: (435) 781-2501
F: (435) 781-2518

N

**NEWFIELD EXPLORATION COMPANY**
U-7-9-16 (Proposed Well)
4-17-9-16 (Existing Well)
SEC. 17, T9S, R16E, S.L.B.&M.
Duchesne County, UT.

| | |
|---|---|
| DRAWN BY: | C.H.M |
| DATE: | 01-19-2011 |
| SCALE: | 1 " = 2,000 ' |

**TOPOGRAPHIC MAP**

SHEET B

RECEIVED: May. 12, 2011

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

**Utah State Office**
**P.O. Box 45155**
**Salt Lake City, Utah 84145-0155**

**IN REPLY REFER TO:**
**3160**
**(UT-922)**

May 12, 2011

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2011 Plan of Development Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2011 within the Greater Monument Butte Unit, Duchesne and Uintah Counties, Utah.

| API # | WELL NAME | LOCATION |
|---|---|---|
| (Proposed PZ GREEN RIVER) | | |
| 43-013-50699 | GMBU U-7-9-16 | Sec 17 T09S R16E 0546 FNL 0671 FWL<br>BHL Sec 07 T09S R16E 0270 FSL 0178 FEL |
| 43-013-50708 | GMBU N-3-9-16 | Sec 03 T09S R16E 1963 FSL 0856 FWL<br>BHL Sec 03 T09S R16E 2259 FNL 1558 FWL |
| 43-013-50709 | GMBU T-4-9-16 | Sec 03 T09S R16E 1948 FSL 0871 FWL<br>BHL Sec 04 T09S R16E 1102 FSL 0119 FEL |
| 43-013-50710 | GMBU W-3-9-16 | Sec 10 T09S R16E 0657 FNL 2002 FEL<br>BHL Sec 03 T09S R16E 0307 FSL 2284 FWL |
| 43-013-50721 | GMBU D-8-9-16 | Sec 05 T09S R16E 0854 FSL 0074 FWL<br>BHL Sec 08 T09S R16E 0312 FNL 1630 FWL |
| 43-013-50722 | GMBU Q-5-9-16 | Sec 05 T09S R16E 0873 FSL 0063 FWL<br>BHL Sec 05 T09S R16E 1558 FSL 1704 FWL |
| 43-013-50723 | GMBU G-7-9-16 | Sec 07 T09S R16E 1989 FNL 0685 FWL<br>BHL Sec 07 T09S R16E 0984 FNL 1740 FWL |
| 43-013-50724 | GMBU B-7-9-16 | Sec 06 T09S R16E 0667 FSL 2065 FEL<br>BHL Sec 07 T09S R16E 0235 FNL 0982 FEL |

**RECEIVED: May. 12, 2011**

| API # | WELL NAME | LOCATION |
|---|---|---|
| (Proposed PZ GREEN RIVER) | | |
| 43-013-50725 | GMBU H-7-9-16 | Sec 07 T09S R16E 2027 FNL 1779 FEL |
| | | BHL Sec 07 T09S R16E 1092 FNL 2606 FEL |
| 43-013-50726 | GMBU L-7-9-16 | Sec 07 T09S R16E 2121 FSL 1898 FEL |
| | | BHL Sec 07 T09S R16E 2488 FNL 0999 FEL |
| 43-013-50727 | GMBU P-7-9-16 | Sec 12 T09S R15E 1811 FSL 0464 FEL |
| | | BHL Sec 07 T09S R16E 1124 FSL 0215 FWL |
| 43-013-50728 | GMBU W-6-9-16 | Sec 07 T09S R16E 0595 FNL 2092 FWL |
| | | BHL Sec 06 T09S R16E 0266 FSL 2334 FEL |
| 43-013-50729 | GMBU X-6-9-16 | Sec 07 T09S R16E 0581 FNL 2077 FWL |
| | | BHL Sec 06 T09S R16E 0190 FSL 1188 FWL |
| 43-013-50731 | GMBU F-7-9-16 | Sec 12 T09S R15E 2001 FNL 0704 FEL |
| | | BHL Sec 07 T09S R16E 1020 FNL 0413 FWL |
| 43-013-50732 | GMBU O-7-9-16 | Sec 12 T09S R15E 2016 FNL 0689 FEL |
| | | BHL Sec 07 T09S R16E 2525 FSL 0232 FWL |
| 43-013-50733 | GMBU S-6-9-16 | Sec 06 T09S R16E 0683 FSL 2051 FEL |
| | | BHL Sec 06 T09S R16E 1407 FSL 1126 FEL |
| 43-013-50738 | GMBU E-8-9-16 | Sec 06 T09S R16E 0838 FSL 0704 FEL |
| | | BHL Sec 08 T09S R16E 0325 FNL 0248 FWL |
| 43-013-50740 | GMBU P-5-9-16 | Sec 06 T09S R16E 0855 FSL 0692 FEL |
| | | BHL Sec 05 T09S R16E 1336 FSL 0057 FWL |
| 43-013-50741 | GMBU C-31-8-17 | Sec 30 T08S R17E 0711 FSL 1936 FWL |
| | | BHL Sec 31 T08S R17E 0247 FNL 2401 FEL |
| 43-013-50742 | GMBU D-31-8-17 | Sec 30 T08S R17E 0732 FSL 1933 FWL |
| | | BHL Sec 31 T08S R17E 0227 FNL 1136 FWL |
| 43-013-50743 | GMBU G-31-8-17 | Sec 31 T08S R17E 0657 FNL 0557 FWL |
| | | BHL Sec 31 T08S R17E 1517 FNL 1397 FWL |
| 43-013-50744 | GMBU D-2-9-16 | Sec 35 T08S R16E 0512 FSL 2111 FWL |
| | | BHL Sec 02 T09S R16E 0030 FNL 1063 FWL |
| 43-013-50745 | GMBU F-8-9-17 | Sec 07 T09S R17E 0743 FNL 0669 FEL |
| | | BHL Sec 08 T09S R17E 1745 FNL 0170 FWL |
| 43-013-50746 | GMBU N-7-9-17 | Sec 07 T09S R17E 1900 FNL 1774 FWL |
| | | BHL Sec 07 T09S R17E 2136 FSL 1497 FWL |
| 43-013-50747 | GMBU U-6-9-17 | Sec 08 T09S R17E 0696 FNL 0516 FWL |
| | | BHL Sec 06 T09S R17E 0133 FSL 0210 FEL |

**RECEIVED:** **May. 12, 2011**

| API # | WELL NAME | LOCATION |
|---|---|---|

(Proposed PZ GREEN RIVER)

| | | |
|---|---|---|
| 43-013-50748 | GMBU V-31-8-17 | Sec 06 T09S R17E 0674 FNL 1958 FEL |
| | | BHL Sec 31 T08S R17E 0046 FSL 1139 FEL |
| 43-013-50749 | GMBU Y-6-9-17 | Sec 12 T09S R16E 0194 FNL 0416 FEL |
| | | BHL Sec 06 T09S R17E 0214 FSL 0292 FWL |
| 43-013-50750 | GMBU F-3-9-16 | Sec 04 T09S R16E 0714 FNL 0558 FEL |
| | | BHL Sec 03 T09S R16E 1586 FNL 0331 FWL |

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2011.05.12 11:18:24 -06'00'

bcc: File - Greater Monument Butte Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:5-12-11

RECEIVED: May. 12, 2011

# WORKSHEET
# APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 4/27/2011
**API NO. ASSIGNED:** 43013506990000
**WELL NAME:** GMBU U-7-9-16
**OPERATOR:** NEWFIELD PRODUCTION COMPANY (N2695)
**PHONE NUMBER:** 435 646-4825
**CONTACT:** Mandie Crozier

**PROPOSED LOCATION:** NWNW 17 090S 160E
**Permit Tech Review:** ☑

**SURFACE:** 0546 FNL 0671 FWL
**Engineering Review:** ☐

**BOTTOM:** 0270 FSL 0178 FEL
**Geology Review:** ☑

**COUNTY:** DUCHESNE
**LATITUDE:** 40.03669
**LONGITUDE:** -110.14960
**UTM SURF EASTINGS:** 572554.00
**NORTHINGS:** 4431965.00
**FIELD NAME:** MONUMENT BUTTE
**LEASE TYPE:** 1 - Federal
**LEASE NUMBER:** UTU-74390
**PROPOSED PRODUCING FORMATION(S):** GREEN RIVER
**SURFACE OWNER:** 1 - Federal
**COALBED METHANE:** NO

**RECEIVED AND/OR REVIEWED:**

- ☑ **PLAT**
- ☑ **Bond:** FEDERAL - WYB000493
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** 437478
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☐ **Intent to Commingle**

**Commingling Approved**

**LOCATION AND SITING:**

- ☐ **R649-2-3.**

**Unit:** GMBU (GRRV)

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☑ **Drilling Unit**

**Board Cause No:** Cause: 213-11
**Effective Date:** 11/30/2009
**Siting:** Suspends General Siting

- ☑ **R649-3-11. Directional Drill**

**Comments:** Presite Completed

**Stipulations:**
4 - Federal Approval - dmason
15 - Directional - dmason
27 - Other - bhill

**RECEIVED:** May. 12, 2011

GARY R. HERBERT
*Governor*
GREGORY S. BELL
*Lieutenant Governor*

**State of Utah**
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
*Executive Director*
**Division of Oil, Gas and Mining**
JOHN R. BAZA
*Division Director*

# Permit To Drill

**********

**Well Name:** GMBU U-7-9-16
**API Well Number:** 43013506990000
**Lease Number:** UTU-74390
**Surface Owner:** FEDERAL
**Approval Date:** 5/12/2011

**Issued to:**
NEWFIELD PRODUCTION COMPANY , Rt 3 Box 3630 , Myton, UT 84052

**Authority:**
Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause: 213-11. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

**Duration:**
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

**General:**
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**Conditions of Approval:**
State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Production casing cement shall be brought up to or above the top of the unitized interval for the Greater Monument Butte Unit (Cause No. 213-11).

**Notification Requirements:**
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)
  OR
  submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at http://oilgas.ogm.utah.gov

**Reporting Requirements:**
All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

**Approved By:**

For John Rogers
Associate Director, Oil & Gas

RECEIVED

Form 3160-3
(August 2007)

APR 29 2011

FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

VERNAL, UTAH

# APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: UTU-74390

6. If Indian, Allotee or Tribe Name: NA

1a. Type of work: ☑ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.: Greater Monument Butte

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.: GMBU U-7-9-16

2. Name of Operator: Newfield Production Company

9. API Well No.: 43-013-50699

3a. Address: Route #3 Box 3630, Myton UT 84052

3b. Phone No. *(include area code)*: (435) 646-3721

10. Field and Pool, or Exploratory: Monument Butte

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: NW/NW 546' FNL 671' FWL Sec. 17, T9S R16E (UTU-74390)

At proposed prod. zone: SE/SE 270' FSL 178' FEL Sec. 7, T9S R16E (UTU-74390)

11. Sec., T. R. M. or Blk. and Survey or Area: Sec. 17, T9S R16E

14. Distance in miles and direction from nearest town or post office*: Approximately 15.2 miles southwest of Myton, UT

12. County or Parish: Duchesne

13. State: UT

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any): Approx. 2818' f/lse, NA f/unit

16. No. of acres in lease: 2,037.19

17. Spacing Unit dedicated to this well: 20 Acres

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: Approx. 872'

19. Proposed Depth: 6,388'

20. BLM/BIA Bond No. on file: WYB000493

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 6016' GL

22. Approximate date work will start*: 3rd Qrtr. 2011

23. Estimated duration: (7) days from SPUD to rig release

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature: Mandie Crozier — Name *(Printed/Typed)*: Mandie Crozier — Date: 4/28/11

Title: Regulatory Specialist

Approved by *(Signature)*: Name *(Printed/Typed)*: Naomi Hatch — Date: AUG 25 2011

Title: Assistant Field Manager Lands & Mineral Resources (acting) — Office: VERNAL FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

UDOGM

RECEIVED
SEP 06 2011
DIV. OF OIL, GAS & MINING

NOS 2-2-11

AFMSS# 11SXS0325A

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE
170 South 500 East VERNAL, UT 84078 (435) 781-4400

## *CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL*

| | | | |
|---|---|---|---|
| **Company:** | **Newfield Production Company** | **Location:** | **NWNW Sec. 17, T9S, R16E** |
| **Well No:** | **GMBU U-7-9-16** | **Lease No:** | **UTU-74390** |
| **API No:** | **43-013-50699** | **Agreement:** | **Greater Monument Butte Unit** |

# OFFICE NUMBER: (435) 781-4400

# OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

| | | |
|---|---|---|
| Location Construction<br>(Notify Environmental Scientist) | - | Forty-Eight (48) hours prior to construction of location and access roads. |
| Location Completion<br>(Notify Environmental Scientist) | - | Prior to moving on the drilling rig. |
| Spud Notice<br>(Notify Petroleum Engineer) | - | Twenty-Four (24) hours prior to spudding the well. |
| Casing String & Cementing<br>(Notify Supv. Petroleum Tech.) | - | Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov. |
| BOP & Related Equipment Tests<br>(Notify Supv. Petroleum Tech.) | - | Twenty-Four (24) hours prior to initiating pressure tests. |
| First Production Notice<br>(Notify Petroleum Engineer) | - | Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days. |

***SURFACE USE PROGRAM***
***CONDITIONS OF APPROVAL (COAs)***

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of $NO_x$ per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.

- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of $NO_x$ per horsepower-hour.

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.

- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

**Wildlife**

- Construction and drilling is not allowed within habitat from May 1st – June 15th to minimize impacts during Mountain plover nesting.

- Construction and drilling is not allowed within habitat from April 1st – August 31st to minimize impacts during prairie falcon nesting.

- If it is anticipated that construction or drilling will occur during the given timing restriction, a BLM or qualified biologist shall be notified so surveys can be conducted. Depending upon the results of the surveys, permission to proceed may or may not be recommended or granted by the BLM Authorized Officer.

- The reclamation seed mix will incorporate low growing grasses and forbs; and not crested wheatgrass since this negatively impacts mountain plover habitat.

- Hospital mufflers will be installed on new and existing pump jacks at the host well locations.

- Screening will be placed on stacks and on other openings of heater-treaters or fired vessels to prevent entry by migratory birds.

**Air Quality**

- All internal combustion equipment shall be kept in good working order.
- Water or other approved dust suppressants shall be used at construction sites and along roads, as determined appropriate by the Authorized Officer.
- Open burning of garbage or refuse shall not occur at well sites or other facilities.
- Drill rigs shall be equipped with Tier II or better diesel engines.
- Vent emissions from stock tanks and natural gas TEG dehydrators shall be controlled by routing the emissions to a flare or similar control device which will reduce emissions by 95% or greater.
- Low bleed pneumatics shall be installed on separator dump valves and other controllers. The use of low bleed pneumatics will result in a lower emission of VOCs.
- During completion, flaring shall be limited as much as possible. Production equipment and gathering lines shall be installed as soon as possible.
- Well site telemetry shall be utilized as feasible for production operations.

**Reclamation**

- Reclamation will be completed in accordance with the Newfield Exploration Company Castle Peak and Eight Mile Flat Reclamation Plan on file with the Vernal Field Office of the BLM.

- Appropriate erosion control and revegetation measures will be employed. In areas with unstable soils where seeding alone may not adequately control erosion, grading will be used to minimize slopes and water bars will be installed on disturbed slopes. Erosion control efforts will be monitored by Newfield and, if necessary, modifications will be made to control erosion.

**Seed Mix (Interim and Final Reclamation)**

| Common Name | Latin Name | Pure Live Seed (lbs/acre) | Seed Planting Depth |
|---|---|---|---|
| Squirreltail grass | *Elymus elymoides* | 2.0 | ¼ - ½" |
| Needle and thread grass | *Hesperostipa comata* | 2.0 | ½" |
| Siberian Wheatgrass | *Agropyron fragile* | 2.0 | ½" |
| Shadscale saltbush | *Atriplex confertifolia* | 2.0 | ½" |
| Four-wing saltbush | *Atriplex canescens* | 2.0 | ½" |
| Gardner's saltbush | *Atriplex gardneri* | 2.0 | ½" |
| Blue flax (Lewis flax) | *Linum lewisii* | 1.0 | ⅛ – ¼" |

- All pounds are pure live seed.
- All seed and mulch will be certified weed free.
- Rates are set for drill seeding; double rate if broadcasting.

**Monitoring and Reporting**

- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) that designates the proposed site-specific monitoring and reference sites chosen for the location. A description of the proposed sites shall be included, as well as a map showing the locations of the proposed sites.

- The operator shall submit a Sundry Notice (Form 3160-5) to the BLM Authorized Officer (AO) 3 growing seasons after reclamation efforts have occurred evaluating the status of the reclaimed areas in order to determine whether the BLM standards set forth in the Green River District Reclamation Guidelines have been met (30% or greater basal cover).

***DOWNHOLE PROGRAM***
***CONDITIONS OF APPROVAL (COAs)***

**SITE SPECIFIC DOWNHOLE COAs:**

- Newfield Production Co. shall comply with all applicable requirements in the SOP (version: "Greater Monument Butte Green River Development Program", June 24, 2008). The operator shall also comply with applicable laws and regulations; with lease terms, Onshore Oil and Gas Orders, NTL's; and with other orders and instructions of the authorized officer.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB

or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

**OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
    - Operator name, address, and telephone number.
    - Well name and number.
    - Well location (¼¼, Sec., Twn, Rng, and P.M.).
    - Date well was placed in a producing status (date of first production for which royalty will be paid).
    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
    - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
    - Unit agreement and/or participating area name and number, if applicable.
    - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs,

core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

BLM - Vernal Field Office - Notification Form

Operator Newfield Exploration Rig Name/# Ross 31 Submitted By Branden Arnold Phone Number 435-401-0223
Well Name/Number GMBU U-7-9-16
Qtr/Qtr NW/NW Section 17 Township 9S Range 16E
Lease Serial Number UTU-74390
API Number 43-013-50699

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 11/21/11 9:00 AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing times.

☒ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

Date/Time 11/21/11 3:00 AM ☐ PM ☒

BOPE

☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ _____ AM ☐ PM ☐

Remarks _____

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
ENTITY ACTION FORM -FORM 6

OPERATOR: NEWFIELD PRODUCTION COMPANY
ADDRESS: RT. 3 BOX 3630
MYTON, UT 84052

OPERATOR ACCT. NO. N2695

| ACTION CODE | CURRENT ENTITY NO. | NEW ENTITY NO. | API NUMBER | WELL NAME | WELL LOCATION QQ | SC | TP | RG | COUNTY | SPUD DATE | EFFECTIVE DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| B | 99999 | 17400 ✓ | 4301350699 | GMBU U-7-9-16 | NWNW | 17 ~~7~~ | 9S | 16E | DUCHESNE | 11/21/2011 | 11/30/11 |
| WELL 1 COMMENTS: GRRV BHL= Sec 7 SESE | | | | | | | | | | — | |
| B | 99999 | 17400 ✓ | 4301350700 | GMBU V-7-9-16 | NWNE | 18 ~~7~~ | 9S | 16E | DUCHESNE | | 11/30/11 |
| GRRV BHL= Sec 7 SESE | | | | | | | | | | — | |
| B | 99999 | 17400 ✓ | 4301350701 | GMBU D-17-9-16 | SWSW | 08 ~~17~~ | 9S | 16E | DUCHESNE | | 11/30/11 |
| GRRV BHL= Sec 17 NENW | | | | | | | | | | — | |
| B | 99999 | 17400 ✓ | 4301350682 | GMBU L-11-9-16 | NWSE | 11 | 9S | 16E | DUCHESNE | | 11/30/11 |
| GRRV BHL= SENE | | | | | | | | | | — | |
| B | 99999 | 17400 ✓ | 4301350698 | GMBU W-7-9-16 | NENW | 18 ~~7~~ | 9S | 16E | DUCHESNE | | 11/30/11 |
| GRRV BHL= Sec 7 SWSE | | | | | | | | | | — | |
| B | 99999 | 17400 ✓ | 4301350579 | GMBU R-11-9-16 | SESW | 11 | 9S | 16E | DUCHESNE | | 11/30/11 |
| GRRV BHL= NWSE | | | | | | | | | | — | |

ACTION CODES (See instructions on back of form)
- A - 1 new entity for new well (single well only)
- B - r well to existing entity (group or unit well)
- C - 'rom one existing entity to another existing entity
- D - well from one existing entity to a new entity
- E - ther (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected

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Signature: Jentri Park
Production Clerk
11/23/11

FORM 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31,2010

**SUNDRY NOTICES AND REPORTS ON WELLS**
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

5. Lease Serial No.
USA UTU-74390

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or
GMBU

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
GMBU U-7-9-16

2. Name of Operator
NEWFIELD PRODUCTION COMPANY

9. API Well No.
4301350699

3a. Address Route 3 Box 3630
Myton, UT 84052

3b. Phone *(include are code)*
435.646.3721

10. Field and Pool, or Exploratory Area
GREATER MB UNIT

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Section 17 T9S R16E

11. County or Parish, State
DUCHESNE, UT

12. CHECK APPROPRIATE BOX(ES) TO INIDICATE NATURE OF NOTICE, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|---|---|---|---|
| ☐ Notice of Intent | ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☒ Subsequent Report | ☐ Alter Casing | ☐ Fracture Treat | ☐ Reclamation | ☐ Well Integrity |
| ☐ Final Abandonment | ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☒ Other Spud Notice |
| | ☐ Change Plans | ☐ Plug & Abandon | ☐ Temporarily Abandon | |
| | ☐ Convert to Injector | ☐ Plug Back | ☐ Water Disposal | |

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 11/21/11 MIRU Ross #29. Spud well @9:00 AM. Drill 330' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24# csgn. Set @ 331.32. On 11/21/11 cement with 160 sks of class "G" w/ 2% CaCL2 + 0.25#/sk Cello- Flake Mixed @ 15.8ppg w/ 1.17ft3/sk yield. Returned 5 barrels cement to pit. WOC.

I hereby certify that the foregoing is true and correct *(Printed/ Typed)*
Branden Arnold

Title

Signature

Date
11/23/2011

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

*(Instructions on page 2)*

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# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8" CASING SET AT 331.32

LAST CASING 14 SET AT 10
DATUM 13
DATUM TO CUT OFF CASING 13
DATUM TO BRADENHEAD FLANGE 13
TD DRILLER 330 LOGGER
HOLE SIZE 12 1/4"

OPERATOR Newfield Exploration Company
WELL GMBU U-7-9-16
FIELD/PROSPECT Monument Butte
CONTRACTOR & RIG # Ross # 31

LOG OF CASING STRING:

| PIECES | OD | ITEM - MAKE - DESCRIPTION | WT / FT | GRD | THREAD | CONDT | LENGTH |
|---|---|---|---|---|---|---|---|
| 1 | | wellhead | | | | A | 1.42 |
| 7 | 8 5/8" | casing (shoe jt 46.30) | 24 | J-55 | STC | A | 318 |
| 1 | 8 5/8" | Guide Shoe | | | | A | 0.9 |
| | | | | | | | |
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| CASING INVENTORY BAL. | FEET | JTS |
|---|---|---|
| TOTAL LENGTH OF STRING | 320.32 | 7 |
| LESS NON CSG. ITEMS | 2.32 | |
| PLUS FULL JTS. LEFT OUT | 0 | |
| TOTAL | 318 | 7 |
| TOTAL CSG. DEL. (W/O THRDS) | | |
| TIMING | | |
| BEGIN RUN CSG. Spud | 10:00 AM | 11/21/2011 |
| CSG. IN HOLE | 5:00 AM | 11/21/2011 |
| BEGIN CIRC | 9:43 AM | 11/22/2011 |
| BEGIN PUMP CMT | 9:53 AM | 11/22/2011 |
| BEGIN DSPL. CMT | 10:02 AM | 11/22/2011 |
| PLUG DOWN | **10:09 AM** | **11/22/2011** |

| | |
|---|---|
| TOTAL LENGTH OF STRING | 320.32 |
| LESS CUT OFF PIECE | 2 |
| PLUS DATUM TO T/CUT OFF CSG | 13 |
| CASING SET DEPTH | **331.32** |

} COMPARE

GOOD CIRC THRU JOB Yes
Bbls CMT CIRC TO SURFACE 5
RECIPROCATED PIPI Yes

BUMPED PLUG TO 427

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DEC 06 2011
DIV. OF OIL, GAS & MINING

| CEMENT USED | | CEMENT COMPANY- BJ |
|---|---|---|
| STAGE | # SX | CEMENT TYPE & ADDITIVES |
| 1 | 160 | Class "G"+2%CaCl Mixed@ 15.8ppg W/1.17 yield returned 5bbls to pit |
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| | | |
| CENTRALIZER & SCRATCHER PLACEMENT | | SHOW MAKE & SPACING |
| Middle of first, top of second and third for a total of three. | | |

COMPANY REPRESENTATIVE **Branden Arnold** DATE **11/21/2011**

**STATE OF UTAH**
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

**5.LEASE DESIGNATION AND SERIAL NUMBER:** UTU-74390

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

**6. IF INDIAN, ALLOTTEE OR TRIBE NAME:**

**7.UNIT or CA AGREEMENT NAME:** GMBU (GRRV)

**1. TYPE OF WELL** Oil Well

**8. WELL NAME and NUMBER:** GMBU U-7-9-16

**2. NAME OF OPERATOR:** NEWFIELD PRODUCTION COMPANY

**9. API NUMBER:** 43013506990000

**3. ADDRESS OF OPERATOR:** Rt 3 Box 3630 , Myton, UT, 84052

**PHONE NUMBER:** 435 646-4825 Ext

**9. FIELD and POOL or WILDCAT:** MONUMENT BUTTE

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:** 0546 FNL 0671 FWL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: NWNW Section: 17 Township: 09.0S Range: 16.0E Meridian: S

**COUNTY:** DUCHESNE

**STATE:** UTAH

**11.** CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ☐ NOTICE OF INTENT<br>Approximate date work will start: | ☐ ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| ☐ SUBSEQUENT REPORT<br>Date of Work Completion: | ☐ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| ☐ SPUD REPORT<br>Date of Spud: | ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| ✓ DRILLING REPORT<br>Report Date:<br>1/20/2012 | ☐ DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| | ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| | ✓ PRODUCTION START OR RESUME | ☐ RECLAMATION OF WELL SITE | ☐ RECOMPLETE DIFFERENT FORMATION |
| | ☐ REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ☐ APD EXTENSION |
| | ☐ WILDCAT WELL DETERMINATION | ☐ OTHER | OTHER: |

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.**

The above well was placed on production 01/20/2012 at 17:00 hours.
Production Start Sundry resent 10/05/2012.

**Accepted by the**
**Utah Division of**
**Oil, Gas and Mining**
**FOR RECORD ONLY**
October 11, 2012

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Kaci Deveraux | 435 646-4867 | Production Technician |
| **SIGNATURE** | | **DATE** |
| N/A | | 10/5/2012 |

RECEIVED: Oct. 05, 2012

FORM 9

# STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

**5.LEASE DESIGNATION AND SERIAL NUMBER:** UTU-74390

## SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

**6. IF INDIAN, ALLOTTEE OR TRIBE NAME:**

**7.UNIT or CA AGREEMENT NAME:** GMBU (GRRV)

**1. TYPE OF WELL** Oil Well

**8. WELL NAME and NUMBER:** GMBU U-7-9-16

**2. NAME OF OPERATOR:** NEWFIELD PRODUCTION COMPANY

**9. API NUMBER:** 43013506990000

**3. ADDRESS OF OPERATOR:** Rt 3 Box 3630 , Myton, UT, 84052

**PHONE NUMBER:** 435 646-4825 Ext

**9. FIELD and POOL or WILDCAT:** MONUMENT BUTTE

**4. LOCATION OF WELL**
**FOOTAGES AT SURFACE:** 0546 FNL 0671 FWL
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:** Qtr/Qtr: NWNW Section: 17 Township: 09.0S Range: 16.0E Meridian: S

**COUNTY:** DUCHESNE

**STATE:** UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ☐ NOTICE OF INTENT Approximate date work will start: | ☐ ACIDIZE | ☐ ALTER CASING | ☐ CASING REPAIR |
| ☐ SUBSEQUENT REPORT Date of Work Completion: | ☐ CHANGE TO PREVIOUS PLANS | ☐ CHANGE TUBING | ☐ CHANGE WELL NAME |
| | ☐ CHANGE WELL STATUS | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ CONVERT WELL TYPE |
| | ☐ DEEPEN | ☐ FRACTURE TREAT | ☐ NEW CONSTRUCTION |
| | ☐ OPERATOR CHANGE | ☐ PLUG AND ABANDON | ☐ PLUG BACK |
| ☐ SPUD REPORT Date of Spud: | ✓ PRODUCTION START OR RESUME | ☐ RECLAMATION OF WELL SITE | ☐ RECOMPLETE DIFFERENT FORMATION |
| | ☐ REPERFORATE CURRENT FORMATION | ☐ SIDETRACK TO REPAIR WELL | ☐ TEMPORARY ABANDON |
| | ☐ TUBING REPAIR | ☐ VENT OR FLARE | ☐ WATER DISPOSAL |
| ✓ DRILLING REPORT Report Date: 1/20/2012 | ☐ WATER SHUTOFF | ☐ SI TA STATUS EXTENSION | ☐ APD EXTENSION |
| | ☐ WILDCAT WELL DETERMINATION | ☐ OTHER | OTHER: |

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.**

The above well was placed on production 01/20/2012 at 17:00 hours. Production Start Sundry resent 10/05/2012.

| NAME (PLEASE PRINT) | PHONE NUMBER | TITLE |
|---|---|---|
| Kaci Deveraux | 435 646-4867 | Production Technician |
| **SIGNATURE** N/A | | **DATE** 10/5/2012 |

RECEIVED: Oct. 05, 2012

# Daily Activity Report

**Format For Sundry**

## GMBU U-7-9-16

**11/1/2011 To 3/29/2012**

**1/6/2012 Day: 1** **Completion**

Rigless on 1/6/2012 - Run CBL & shot 1st stage - NU 6" 5K Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Perforators LLC WLT w/ mast & run CBL under pressure. WLTD @ 6246' & cement top @ 0'. Perforate stage #1, CP4 sds @ 5997-99', CP2 sand @ 5856-57', 5847-48' & CP1 sands @ 5830-31', 5826-27' & 5822-23' w/ 3 1/8" Port plug guns ( 11 gram .36" EH 16.82" pen) w/ 3 spf for total of 21 shots. 150 BWTR. SWIFN.
**Daily Cost:** $0
**Cumulative Cost:** $18,518

---

**1/12/2012 Day: 2** **Completion**

Rigless on 1/12/2012 - Pump six stage frac. Rig down BJ Services. Flowback well overnight. - Pump six stage frac. Rig down BJ Services. Flowback well overnight.
**Daily Cost:** $0
**Cumulative Cost:** $192,235

---

**1/13/2012 Day: 3** **Completion**

Nabors #1423 on 1/13/2012 - Set kill plug. - Pump 20 bbls water @ 250°. Open well w/ 1000 PSI on casing. RU PSI WLT, crane & lubricator. RIH & set solid composite plug @ 4250' w/ 1100 psi on well. Bled pressure of well (all gas). RD WLT. SIFN.
**Daily Cost:** $0
**Cumulative Cost:** $198,126

---

**1/16/2012 Day: 4** **Completion**

Nabors #1423 on 1/16/2012 - PU tbg. - MIRUSU. RD air heater. Open well w/ 500 psi of gas. RD Cameron BOP's. Instal 5K Schafer BOP's. RU 4-3/4" used Chomp mill & x-over sub. Tally, pick-up, drift new J-55, 2-7/8", 6.5#, 8EUE tbg, 137 jts. Tag plug @ 4250'. RU air heater. SIFN.
**Daily Cost:** $0
**Cumulative Cost:** $242,891

---

**1/17/2012 Day: 5** **Completion**

Nabors #1423 on 1/17/2012 - Drlg out plugs. - RU pump, swivel, pump & tanks. Drlg out plug @ 4250'. Well flowing hard gas & oil. Flowed 400 bbls water, oil & gas. Pump 30 bbls water. TIH w/ tbg to drlg out plug @ 4470'. Pump 70 bbls down tbg to TIH w/ tbg to tag plug @ 4760'. Drlg out plug. SIFN w/ 3300 bbls EWTR.
**Daily Cost:** $0
**Cumulative Cost:** $250,676

---

**1/18/2012 Day: 6** **Completion**

Nabors #1423 on 1/18/2012 - Finish drlg plugs. Flow well. - RD Air heater. Open well w/ 700 psi. Flow well back. Pump 40 bbls down tbg. TIH w/ tbg to tag plug @ 4980'. Drlg out plug. TIH w/ tbg to plug @ 5335'. Drlg out plug. TIH w/ tbg to tag fill @ 5420'. C/O to plug @ 5520'. Drlg out plug. Pump 80 bbls water down tbg. TIH w/ 20 jts tbg to leave EOT @ 6020'. Leave well to flow to production tanks. Well flowing. SIFN w/ 1100 bbls mostly water rec'd today. SIFN w/ 2200 bbls EWTR.
**Daily Cost:** $0
**Cumulative Cost:** $257,605

---

**1/19/2012 Day: 7** **Completion**

Nabors #1423 on 1/19/2012 - Pump brine. Well flowed. TIH w/ tbg. - Take tarp off well. Open well w/ 800 psi flowed 600 bbls over night on 30 choke. Pump 20 bbls 10# brine. TIH to tag fill @ 6250' C/O to PBTD @ 6320'. Circulate 250 bbls brine. TOOH w/ tbg. 15 stds from surface well started to flow. Circulate 50 bbld brine, well still flowing. TIH w/ tbg. Try brine again in morning. SIFN w/ 1600 bbls EWTR.
**Daily Cost:** $0
**Cumulative Cost:** $267,770

---

**1/20/2012 Day: 8** **Completion**

Nabors #1423 on 1/20/2012 - Pump brine. Well still flowing. RU well to flow. - Open well w/ 560 on casing. Blow well down. Circulate 200 bbls brine down csg. Pump 30 bbls brine down tbg. Well still flowing. Circulate 60 bbls down csg. Pump 20 down tbg. Well flowing. TIH w/ 10 stds. Leave EOT @ 6062' w/ 194 jts, x-over sub, 4-3/4" chomp mill. RU well to flow. Well flowing on 40 choke @ 500 psi on casing @ 2 bpm. Leave well on 20/64 choke. RDMOSU w/ 200 bbls EWTR.
**Daily Cost:** $0
**Cumulative Cost:** $295,170

---

**2/6/2012 Day: 9** **Completion**

Nabors #1423 on 2/6/2012 - MIRUSU. RU BOP's. - Well has 1800 psi on casing. 250 on tbg. MIRUSU. RD well head. RU BOP's w/ spool. Remove hanger. SIFN.
**Daily Cost:** $0
**Cumulative Cost:** $301,889

---

**2/7/2012 Day: 10** **Completion**

Nabors #1423 on 2/7/2012 - TIH w/ tbg. Attempt to cut tbg. TOOH w/ tbg. TIH w/ tbg. - Open well w/ 500 on casing, 50 psi on tbg. Pump 30 bbls down tbg. TIH w/ tbg to tag PBTD @ 6321' (no fill). LD 2 jts tbg. RU Perforators WLT w/ lubricator. RIH w/ 72" Chemical cutter. Cut tbg @ 6242' (to leave 15' of tbg). Didn't cut. Went in & tag mill. Tools got stuck in tbg. Pump 160 bbls of brine down casing (never seen brine in returns). Only returned 50 bbls water. TOOH w/ tbg. LD partially cut tbg w/ tools inside. RU NC & SN. TIH w/ tbg. Leave EOT @ 5002'. SIFN.
**Daily Cost:** $0
**Cumulative Cost:** $311,539

---

**2/8/2012 Day: 11** **Completion**

Nabors #1423 on 2/8/2012 - LD tbg. Swab well. Well flowing. RDMOSU. - Open well w/ 100 psi on casing, 0 psi on tbg. TIH w/ tbg. TOOH LD tbg. EOT @ 4254'. RD BOP's. Land tbg on donut. RU well head. RU swab. Made 5 runs (last one from SN). Rec'd 100 bbls. Well flowing 1.5 bpm w/ 20% oil cut, w/ good gas. RD swab. RDMOSU. Left well flowing on 20 choke to production equipment w/250 psi on casing.
**Daily Cost:** $0
**Cumulative Cost:** $320,591

---

**2/11/2012 Day: 12** **Completion**

Rigless on 2/11/2012 - Production Log on well. - RU PLS WLT w/ mast. Well was flowing w/ 550 psi on casing. Run log. -
**Daily Cost:** $0
**Cumulative Cost:** $329,341

---

**Pertinent Files: Go to File List**

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: UTU-74390

1a. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☑ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
Other: _____

6. If Indian, Allottee or Tribe Name:

7. Unit or CA Agreement Name and No.: Greater Monument Butte

2. Name of Operator: NEWFIELD EXPLORATION COMPANY

8. Lease Name and Well No.: GMBU U-7-9-16

3. Address: 1401 17TH ST. SUITE 1000 DENVER, CO 80202

3a. Phone No. *(include area code)*: (435) 646-3721

9. AFI Well No.: 43-013-50699

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**

At surface 546' FNL & 671' FWL NWNW SEC. 17, T9S, R16E (UTU-74390)

10. Field and Pool or Exploratory: MONUMENT BUTTE

11. Sec., T., R., M., on Block and Survey or Area: SEC. 17, T9S, R16E

At top prod. interval reported below 39' FNL & 132' FWL (SW/NW) SEC. 17, T9S, R16E (UTU-74390)

At total depth 240' FSL & ~~172' FEL~~ 72 FWL (SE/SE) SEC. 7, T9S, R16E (UTU-74390) BHL by HSM

12. County or Parish: DUCHESNE

13. State: UT

14. Date Spudded: 11/12/2011

15. Date T.D. Reached: 12/11/2011

16. Date Completed: 01/20/2012 ☐ D & A ☑ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*: 6016' GL 13' KB

18. Total Depth: MD 6382' TVD 6260'

19. Plug Back T.D.: MD 6321' TVD 6200

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
DUAL IND GRD, SP, COMP. DENSITY,COMP. NEUTRON,GR,CALIPER, CMT BOND

22. Was well cored? ☑ No ☐ Yes (Submit analysis)
Was DST run? ☑ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☑ Yes (Submit copy)

23. Casing and Liner Record *(Report all strings set in well)*

| Hole Size | Size/Grade | Wt. (#/ft.) | Top (MD) | Bottom (MD) | Stage Cementer Depth | No. of Sks. & Type of Cement | Slurry Vol. (BBL) | Cement Top* | Amount Pulled |
|---|---|---|---|---|---|---|---|---|---|
| 12-1/4" | 8-5/8" J-55 | 24# | 0 | 320' | | 160 CLASS G | | | |
| 7-7/8" | 5-1/2" J-55 | 15.5# | 0 | 6365' | | 250 PRIMLITE | | 1' | |
| | | | | | | 425 50/50 POZ | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

24. Tubing Record

| Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|---|---|---|---|---|---|---|---|---|
| 2-7/8" | EOT@ 4255' | | | | | | | |

25. Producing Intervals / 26. Perforation Record

| Formation | Top | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|---|---|---|---|---|---|---|
| A) Green River | 4303' | 5999' | 5822'-5999' | .36" | 6 | |
| B) | | | 4303'-5421' | .34" | 24 | |
| C) | | | | | | |
| D) | | | | | | |

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

| Depth Interval | Amount and Type of Material |
|---|---|
| 4303-5999' | Frac w/ 420467 #'s 20/40 sand in 3650 bbls of Lightning 17 fluid in 6 stages |
| | |
| | |

28. Production - Interval A

| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---|---|---|---|---|---|---|---|---|---|
| 01/20/12 | 01/30/12 | 24 | → | 28 | 9 | 223 | | | Flowing |

| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| | | | → | | | | | PRODUCING |

28a. Production - Interval B

| Date First Produced | Test Date | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---|---|---|---|---|---|---|---|---|---|
| | | | → | | | | | | |

| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| | | | → | | | | | |

*(See instructions and spaces for additional data on page 2)

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28b. Production - Interval C

| Date First Produced | Test Date | Hours Tested | Test Production → | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate → | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

28c. Production - Interval D

| Date First Produced | Test Date | Hours Tested | Test Production → | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| Choke Size | Tbg. Press. Flwg. SI | Csg. Press. | 24 Hr. Rate → | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

29. Disposition of Gas *(Solid, used for fuel, vented, etc.)*

USED FOR FUEL

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

GEOLOGICAL MARKERS

| Formation | Top | Bottom | Descriptions, Contents, etc. | Name | Top Meas. Depth |
|---|---|---|---|---|---|
| GREEN RIVER | 4303' | 5999' | | GARDEN GULCH MRK | 3820' |
| | | | | GARDEN GULCH 1 | 4043' |
| | | | | GARDEN GULCH 2 | 4153' |
| | | | | POINT 3 | 4411' |
| | | | | X MRKR | 4681' |
| | | | | Y MRKR | 4715' |
| | | | | DOUGALS CREEK MRK | 4829' |
| | | | | BI CARBONATE MRK | 5060' |
| | | | | B LIMESTON MRK | 5164' |
| | | | | CASTLE PEAK | 5745' |
| | | | | BASAL CARBONATE | 6211' |
| | | | | WASATCH | 6335' |

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☑ Directional Survey

☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name *(please print)* Jennifer Peatross Title Production Technician

Signature Jpeatross Date 10/17/2012

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

NEWFIELD

# NEWFIELD EXPLORATION

**USGS Myton SW (UT)**
**SECTION 17 T9, R16**
**U-7-9-16**

**Wellbore #1**

**Design: Actual**

# Standard Survey Report

**29 December, 2011**

NEWFIELD

# Payzone Directional

Survey Report

[redacted]

| | | | |
|---|---|---|---|
| **Company:** | NEWFIELD EXPLORATION | **Local Co-ordinate Reference:** | Well U-7-9-16 |
| **Project:** | USGS Myton SW (UT) | **TVD Reference:** | U-7-9-16 @ 6028.0ft (Capstar 329) |
| **Site:** | SECTION 17 T9, R16 | **MD Reference:** | U-7-9-16 @ 6028.0ft (Capstar 329) |
| **Well:** | U-7-9-16 | **North Reference:** | True |
| **Wellbore:** | Wellbore #1 | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Actual | **Database:** | EDM 2003.21 Single User Db |

**Project** USGS Myton SW (UT), DUCHESNE COUNTY, UT, USA

| | | | |
|---|---|---|---|
| **Map System:** | US State Plane 1983 | **System Datum:** | Mean Sea Level |
| **Geo Datum:** | North American Datum 1983 | | |
| **Map Zone:** | Utah Central Zone | | |

**Site** SECTION 17 T9, R16

| | | | | | |
|---|---|---|---|---|---|
| **Site Position:** | | **Northing:** | 7,185,000.00 ft | **Latitude:** | 40° 2' 12.729 N |
| **From:** | Map | **Easting:** | 2,018,000.00 ft | **Longitude:** | 110° 9' 4.925 W |
| **Position Uncertainty:** | 0.0 ft | **Slot Radius:** | " | **Grid Convergence:** | 0.86 ° |

**Well** U-7-9-16, SHL LAT: 40 02 12.00 LONG: -110 09 00.85

| | | | | | | |
|---|---|---|---|---|---|---|
| **Well Position** | **+N/-S** | 0.0 ft | **Northing:** | 7,184,931.00 ft | **Latitude:** | 40° 2' 12.000 N |
| | **+E/-W** | 0.0 ft | **Easting:** | 2,018,317.99 ft | **Longitude:** | 110° 9' 0.850 W |
| **Position Uncertainty** | | 0.0 ft | **Wellhead Elevation:** | 6,028.0 ft | **Ground Level:** | 6,016.0 ft |

**Wellbore** Wellbore #1

| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|---|---|---|---|---|---|
| | IGRF2010 | 12/29/2010 | 11.41 | 65.78 | 52,295 |

**Design** Actual

**Audit Notes:**

| | | | | | |
|---|---|---|---|---|---|
| **Version:** | 1.0 | **Phase:** | ACTUAL | **Tie On Depth:** | 0.0 |

| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
|---|---|---|---|---|
| | 0.0 | 0.0 | 0.0 | 313.00 |

**Survey Program** **Date** 12/29/2011

| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description |
|---|---|---|---|---|
| 350.0 | 6,382.0 | Survey #1 (Wellbore #1) | MWD | MWD - Standard |

**Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 350.0 | 0.40 | 216.20 | 350.0 | -1.0 | -0.7 | -0.1 | 0.11 | 0.11 | 0.00 |
| 381.0 | 0.79 | 242.46 | 381.0 | -1.2 | -1.0 | -0.1 | 1.50 | 1.26 | 84.71 |
| 411.0 | 1.40 | 257.80 | 411.0 | -1.3 | -1.5 | 0.2 | 2.24 | 2.03 | 51.13 |
| 442.0 | 2.10 | 263.60 | 442.0 | -1.5 | -2.5 | 0.8 | 2.33 | 2.26 | 18.71 |
| 478.0 | 2.72 | 267.51 | 477.9 | -1.6 | -4.0 | 1.8 | 1.78 | 1.72 | 10.86 |
| 503.0 | 3.30 | 270.41 | 502.9 | -1.6 | -5.3 | 2.8 | 2.40 | 2.32 | 11.60 |
| 533.0 | 3.63 | 273.65 | 532.9 | -1.6 | -7.1 | 4.1 | 1.28 | 1.10 | 10.80 |
| 565.0 | 3.65 | 276.43 | 564.8 | -1.4 | -9.1 | 5.7 | 0.56 | 0.06 | 8.69 |
| 595.0 | 3.60 | 277.14 | 594.7 | -1.2 | -11.0 | 7.3 | 0.22 | -0.17 | 2.37 |
| 626.0 | 3.50 | 278.90 | 625.7 | -0.9 | -12.9 | 8.8 | 0.48 | -0.32 | 5.68 |
| 656.0 | 3.50 | 280.20 | 655.6 | -0.6 | -14.7 | 10.4 | 0.26 | 0.00 | 4.33 |
| 686.0 | 3.40 | 282.30 | 685.6 | -0.2 | -16.5 | 11.9 | 0.54 | -0.33 | 7.00 |

| | | | |
|---|---|---|---|
| **Company:** | NEWFIELD EXPLORATION | **Local Co-ordinate Reference:** | Well U-7-9-16 |
| **Project:** | USGS Myton SW (UT) | **TVD Reference:** | U-7-9-16 @ 6028.0ft (Capstar 329) |
| **Site:** | SECTION 17 T9, R16 | **MD Reference:** | U-7-9-16 @ 6028.0ft (Capstar 329) |
| **Well:** | U-7-9-16 | **North Reference:** | True |
| **Wellbore:** | Wellbore #1 | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Actual | **Database:** | EDM 2003.21 Single User Db |

**Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 717.0 | 3.40 | 282.90 | 716.5 | 0.2 | -18.3 | 13.5 | 0.11 | 0.00 | 1.94 |
| 748.0 | 4.00 | 283.80 | 747.4 | 0.6 | -20.2 | 15.2 | 1.94 | 1.94 | 2.90 |
| 780.0 | 4.60 | 284.20 | 779.3 | 1.2 | -22.5 | 17.3 | 1.88 | 1.88 | 1.25 |
| 811.0 | 5.00 | 284.30 | 810.2 | 1.9 | -25.0 | 19.6 | 1.29 | 1.29 | 0.32 |
| 842.0 | 5.50 | 284.60 | 841.1 | 2.6 | -27.8 | 22.1 | 1.62 | 1.61 | 0.97 |
| 887.0 | 6.10 | 284.60 | 885.9 | 3.7 | -32.2 | 26.1 | 1.33 | 1.33 | 0.00 |
| 932.0 | 6.90 | 291.90 | 930.6 | 5.3 | -37.0 | 30.7 | 2.55 | 1.78 | 16.22 |
| 977.0 | 7.40 | 296.10 | 975.2 | 7.6 | -42.1 | 36.0 | 1.61 | 1.11 | 9.33 |
| 1,023.0 | 8.10 | 296.10 | 1,020.8 | 10.3 | -47.7 | 41.9 | 1.52 | 1.52 | 0.00 |
| 1,068.0 | 8.70 | 298.10 | 1,065.3 | 13.3 | -53.5 | 48.3 | 1.48 | 1.33 | 4.44 |
| 1,113.0 | 9.10 | 302.10 | 1,109.8 | 16.8 | -59.6 | 55.0 | 1.64 | 0.89 | 8.89 |
| 1,159.0 | 9.70 | 306.80 | 1,155.2 | 21.1 | -65.8 | 62.5 | 2.12 | 1.30 | 10.22 |
| 1,204.0 | 10.40 | 310.60 | 1,199.5 | 26.0 | -71.9 | 70.3 | 2.14 | 1.56 | 8.44 |
| 1,249.0 | 11.00 | 313.30 | 1,243.7 | 31.6 | -78.1 | 78.6 | 1.74 | 1.33 | 6.00 |
| 1,295.0 | 11.70 | 315.90 | 1,288.8 | 37.9 | -84.5 | 87.7 | 1.88 | 1.52 | 5.65 |
| 1,340.0 | 12.00 | 317.00 | 1,332.8 | 44.6 | -90.9 | 96.9 | 0.83 | 0.67 | 2.44 |
| 1,385.0 | 12.10 | 316.60 | 1,376.9 | 51.5 | -97.3 | 106.3 | 0.29 | 0.22 | -0.89 |
| 1,431.0 | 11.90 | 317.00 | 1,421.9 | 58.5 | -103.9 | 115.8 | 0.47 | -0.43 | 0.87 |
| 1,476.0 | 11.80 | 315.60 | 1,465.9 | 65.1 | -110.2 | 125.1 | 0.68 | -0.22 | -3.11 |
| 1,521.0 | 13.20 | 318.60 | 1,509.8 | 72.3 | -116.9 | 134.8 | 3.43 | 3.11 | 6.67 |
| 1,567.0 | 13.80 | 318.10 | 1,554.6 | 80.3 | -124.0 | 145.5 | 1.33 | 1.30 | -1.09 |
| 1,612.0 | 13.60 | 317.20 | 1,598.3 | 88.2 | -131.2 | 156.1 | 0.65 | -0.44 | -2.00 |
| 1,657.0 | 13.60 | 317.10 | 1,642.0 | 95.9 | -138.4 | 166.6 | 0.05 | 0.00 | -0.22 |
| 1,703.0 | 13.50 | 315.30 | 1,686.7 | 103.7 | -145.8 | 177.4 | 0.94 | -0.22 | -3.91 |
| 1,748.0 | 13.60 | 314.50 | 1,730.5 | 111.2 | -153.3 | 187.9 | 0.47 | 0.22 | -1.78 |
| 1,793.0 | 13.50 | 313.60 | 1,774.2 | 118.5 | -160.9 | 198.5 | 0.52 | -0.22 | -2.00 |
| 1,839.0 | 13.20 | 311.60 | 1,819.0 | 125.7 | -168.7 | 209.1 | 1.20 | -0.65 | -4.35 |
| 1,884.0 | 12.70 | 311.00 | 1,862.8 | 132.3 | -176.3 | 219.2 | 1.15 | -1.11 | -1.33 |
| 1,929.0 | 12.20 | 309.70 | 1,906.8 | 138.6 | -183.7 | 228.9 | 1.27 | -1.11 | -2.89 |
| 1,975.0 | 11.90 | 311.00 | 1,951.8 | 144.8 | -191.0 | 238.5 | 0.88 | -0.65 | 2.83 |
| 2,020.0 | 11.30 | 309.70 | 1,995.8 | 150.7 | -197.9 | 247.5 | 1.45 | -1.33 | -2.89 |
| 2,066.0 | 10.90 | 310.10 | 2,041.0 | 156.4 | -204.7 | 256.3 | 0.89 | -0.87 | 0.87 |
| 2,111.0 | 10.70 | 310.40 | 2,085.2 | 161.8 | -211.1 | 264.8 | 0.46 | -0.44 | 0.67 |
| 2,156.0 | 10.80 | 311.00 | 2,129.4 | 167.3 | -217.5 | 273.1 | 0.33 | 0.22 | 1.33 |
| 2,202.0 | 10.80 | 310.60 | 2,174.6 | 172.9 | -224.0 | 281.8 | 0.16 | 0.00 | -0.87 |
| 2,247.0 | 10.50 | 310.00 | 2,218.8 | 178.3 | -230.3 | 290.1 | 0.71 | -0.67 | -1.33 |
| 2,292.0 | 10.50 | 308.20 | 2,263.1 | 183.5 | -236.7 | 298.2 | 0.73 | 0.00 | -4.00 |
| 2,338.0 | 10.50 | 306.00 | 2,308.3 | 188.5 | -243.4 | 306.6 | 0.87 | 0.00 | -4.78 |
| 2,383.0 | 11.20 | 306.50 | 2,352.5 | 193.5 | -250.2 | 315.0 | 1.57 | 1.56 | 1.11 |
| 2,428.0 | 10.50 | 311.70 | 2,396.7 | 198.9 | -256.8 | 323.4 | 2.67 | -1.56 | 11.56 |
| 2,474.0 | 10.40 | 314.50 | 2,441.9 | 204.6 | -262.9 | 331.8 | 1.13 | -0.22 | 6.09 |
| 2,519.0 | 10.60 | 316.60 | 2,486.2 | 210.4 | -268.6 | 340.0 | 0.96 | 0.44 | 4.67 |
| 2,564.0 | 10.90 | 320.00 | 2,530.4 | 216.7 | -274.2 | 348.3 | 1.56 | 0.67 | 7.56 |
| 2,610.0 | 11.40 | 319.80 | 2,575.5 | 223.5 | -279.9 | 357.1 | 1.09 | 1.09 | -0.43 |
| 2,655.0 | 11.20 | 319.90 | 2,619.6 | 230.2 | -285.6 | 365.9 | 0.45 | -0.44 | 0.22 |
| 2,701.0 | 10.90 | 321.20 | 2,664.8 | 237.0 | -291.2 | 374.6 | 0.85 | -0.65 | 2.83 |
| 2,746.0 | 11.30 | 325.10 | 2,708.9 | 244.0 | -296.4 | 383.2 | 1.89 | 0.89 | 8.67 |
| 2,791.0 | 12.00 | 324.00 | 2,753.0 | 251.4 | -301.7 | 392.1 | 1.63 | 1.56 | -2.44 |
| 2,837.0 | 12.80 | 322.00 | 2,797.9 | 259.3 | -307.6 | 401.8 | 1.97 | 1.74 | -4.35 |
| 2,882.0 | 13.36 | 318.84 | 2,841.8 | 267.1 | -314.1 | 411.9 | 2.02 | 1.24 | -7.02 |
| 2,927.0 | 14.50 | 316.56 | 2,885.4 | 275.1 | -321.4 | 422.7 | 2.81 | 2.53 | -5.07 |
| 2,972.0 | 15.30 | 313.79 | 2,928.9 | 283.3 | -329.6 | 434.2 | 2.38 | 1.78 | -6.16 |
| 3,018.0 | 15.80 | 312.00 | 2,973.3 | 291.7 | -338.6 | 446.6 | 1.51 | 1.09 | -3.89 |
| 3,063.0 | 15.30 | 311.00 | 3,016.6 | 299.7 | -347.6 | 458.6 | 1.26 | -1.11 | -2.22 |

NEWFIELD

# Payzone Directional

Survey Report

| | | | |
|---|---|---|---|
| **Company:** | NEWFIELD EXPLORATION | **Local Co-ordinate Reference:** | Well U-7-9-16 |
| **Project:** | USGS Myton SW (UT) | **TVD Reference:** | U-7-9-16 @ 6028.0ft (Capstar 329) |
| **Site:** | SECTION 17 T9, R16 | **MD Reference:** | U-7-9-16 @ 6028.0ft (Capstar 329) |
| **Well:** | U-7-9-16 | **North Reference:** | True |
| **Wellbore:** | Wellbore #1 | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Actual | **Database:** | EDM 2003.21 Single User Db |

**Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 3,108.0 | 15.00 | 310.30 | 3,060.0 | 307.4 | -356.6 | 470.4 | 0.78 | -0.67 | -1.56 |
| 3,154.0 | 14.50 | 312.30 | 3,104.5 | 315.1 | -365.4 | 482.1 | 1.55 | -1.09 | 4.35 |
| 3,199.0 | 13.70 | 311.00 | 3,148.2 | 322.4 | -373.6 | 493.1 | 1.91 | -1.78 | -2.89 |
| 3,244.0 | 13.40 | 312.80 | 3,191.9 | 329.4 | -381.4 | 503.6 | 1.15 | -0.67 | 4.00 |
| 3,290.0 | 14.00 | 316.80 | 3,236.6 | 337.1 | -389.1 | 514.5 | 2.44 | 1.30 | 8.70 |
| 3,335.0 | 14.50 | 319.60 | 3,280.2 | 345.3 | -396.5 | 525.5 | 1.89 | 1.11 | 6.22 |
| 3,380.0 | 15.10 | 324.60 | 3,323.7 | 354.4 | -403.5 | 536.8 | 3.13 | 1.33 | 11.11 |
| 3,426.0 | 15.00 | 324.80 | 3,368.2 | 364.2 | -410.4 | 548.5 | 0.24 | -0.22 | 0.43 |
| 3,471.0 | 14.90 | 323.90 | 3,411.6 | 373.6 | -417.2 | 559.9 | 0.56 | -0.22 | -2.00 |
| 3,517.0 | 14.90 | 323.90 | 3,456.1 | 383.1 | -424.2 | 571.5 | 0.00 | 0.00 | 0.00 |
| 3,562.0 | 14.80 | 323.80 | 3,499.6 | 392.5 | -431.0 | 582.9 | 0.23 | -0.22 | -0.22 |
| 3,607.0 | 14.40 | 322.20 | 3,543.1 | 401.5 | -437.8 | 594.0 | 1.26 | -0.89 | -3.56 |
| 3,653.0 | 14.40 | 319.00 | 3,587.7 | 410.4 | -445.1 | 605.4 | 1.73 | 0.00 | -6.96 |
| 3,698.0 | 14.10 | 317.40 | 3,631.3 | 418.6 | -452.4 | 616.4 | 1.10 | -0.67 | -3.56 |
| 3,743.0 | 13.00 | 315.30 | 3,675.0 | 426.2 | -459.7 | 626.9 | 2.68 | -2.44 | -4.67 |
| 3,789.0 | 12.50 | 313.30 | 3,719.9 | 433.3 | -467.0 | 637.1 | 1.45 | -1.09 | -4.35 |
| 3,834.0 | 12.30 | 313.10 | 3,763.9 | 440.0 | -474.0 | 646.7 | 0.45 | -0.44 | -0.44 |
| 3,879.0 | 12.30 | 316.70 | 3,807.8 | 446.7 | -480.8 | 656.3 | 1.70 | 0.00 | 8.00 |
| 3,925.0 | 12.60 | 321.00 | 3,852.7 | 454.2 | -487.3 | 666.2 | 2.12 | 0.65 | 9.35 |
| 3,970.0 | 12.40 | 319.60 | 3,896.7 | 461.7 | -493.6 | 675.8 | 0.81 | -0.44 | -3.11 |
| 4,015.0 | 12.40 | 316.00 | 3,940.6 | 468.8 | -500.0 | 685.4 | 1.72 | 0.00 | -8.00 |
| 4,061.0 | 12.20 | 315.00 | 3,985.6 | 475.8 | -506.9 | 695.2 | 0.64 | -0.43 | -2.17 |
| 4,106.0 | 11.50 | 312.50 | 4,029.6 | 482.2 | -513.6 | 704.5 | 1.93 | -1.56 | -5.56 |
| 4,151.0 | 11.30 | 311.80 | 4,073.7 | 488.2 | -520.2 | 713.4 | 0.54 | -0.44 | -1.56 |
| 4,197.0 | 11.30 | 316.00 | 4,118.8 | 494.4 | -526.7 | 722.4 | 1.79 | 0.00 | 9.13 |
| 4,242.0 | 10.90 | 314.80 | 4,163.0 | 500.6 | -532.7 | 731.0 | 1.03 | -0.89 | -2.67 |
| 4,288.0 | 10.40 | 312.30 | 4,208.2 | 506.5 | -538.9 | 739.5 | 1.48 | -1.09 | -5.43 |
| 4,378.0 | 11.90 | 317.00 | 4,296.5 | 518.7 | -551.2 | 756.9 | 1.95 | 1.67 | 5.22 |
| 4,424.0 | 12.40 | 318.70 | 4,341.5 | 525.9 | -557.7 | 766.6 | 1.34 | 1.09 | 3.70 |
| 4,469.0 | 12.00 | 318.00 | 4,385.5 | 533.0 | -564.0 | 776.0 | 0.95 | -0.89 | -1.56 |
| 4,514.0 | 11.70 | 317.00 | 4,429.5 | 539.8 | -570.3 | 785.2 | 0.81 | -0.67 | -2.22 |
| 4,560.0 | 11.90 | 314.10 | 4,474.5 | 546.5 | -576.9 | 794.6 | 1.36 | 0.43 | -6.30 |
| 4,605.0 | 12.70 | 312.50 | 4,518.5 | 553.1 | -583.9 | 804.2 | 1.93 | 1.78 | -3.56 |
| 4,650.0 | 12.30 | 312.30 | 4,562.4 | 559.7 | -591.0 | 814.0 | 0.89 | -0.89 | -0.44 |
| 4,696.0 | 11.60 | 311.70 | 4,607.4 | 566.0 | -598.1 | 823.5 | 1.55 | -1.52 | -1.30 |
| 4,741.0 | 10.90 | 309.50 | 4,651.6 | 571.8 | -604.8 | 832.2 | 1.82 | -1.56 | -4.89 |
| 4,786.0 | 11.00 | 310.10 | 4,695.7 | 577.2 | -611.4 | 840.8 | 0.34 | 0.22 | 1.33 |
| 4,832.0 | 11.30 | 311.40 | 4,740.9 | 583.0 | -618.1 | 849.7 | 0.85 | 0.65 | 2.83 |
| 4,877.0 | 11.10 | 311.40 | 4,785.0 | 588.8 | -624.6 | 858.4 | 0.44 | -0.44 | 0.00 |
| 4,922.0 | 11.20 | 314.80 | 4,829.2 | 594.8 | -631.0 | 867.1 | 1.48 | 0.22 | 7.56 |
| 4,941.5 | 10.86 | 314.03 | 4,848.4 | 597.4 | -633.7 | 870.8 | 1.90 | -1.75 | -3.96 |
| **U-7-9-16 TGT** | | | | | | | | | |
| 4,968.0 | 10.40 | 312.90 | 4,874.4 | 600.7 | -637.2 | 875.7 | 1.90 | -1.73 | -4.26 |
| 5,013.0 | 10.00 | 310.30 | 4,918.6 | 606.0 | -643.2 | 883.7 | 1.36 | -0.89 | -5.78 |
| 5,058.0 | 10.00 | 307.10 | 4,963.0 | 610.9 | -649.3 | 891.5 | 1.23 | 0.00 | -7.11 |
| 5,104.0 | 10.20 | 310.00 | 5,008.3 | 615.9 | -655.6 | 899.5 | 1.19 | 0.43 | 6.30 |
| 5,149.0 | 10.00 | 314.30 | 5,052.6 | 621.2 | -661.4 | 907.4 | 1.73 | -0.44 | 9.56 |
| 5,195.0 | 9.90 | 316.20 | 5,097.9 | 626.9 | -667.0 | 915.3 | 0.75 | -0.22 | 4.13 |
| 5,240.0 | 10.30 | 317.80 | 5,142.2 | 632.6 | -672.4 | 923.2 | 1.09 | 0.89 | 3.56 |
| 5,285.0 | 11.10 | 314.60 | 5,186.4 | 638.7 | -678.2 | 931.6 | 2.21 | 1.78 | -7.11 |
| 5,331.0 | 12.70 | 315.40 | 5,231.4 | 645.4 | -684.9 | 941.0 | 3.50 | 3.48 | 1.74 |
| 5,376.0 | 13.60 | 311.60 | 5,275.2 | 652.4 | -692.3 | 951.3 | 2.77 | 2.00 | -8.44 |
| 5,421.0 | 14.20 | 312.90 | 5,318.9 | 659.7 | -700.3 | 962.1 | 1.50 | 1.33 | 2.89 |
| 5,467.0 | 14.10 | 313.40 | 5,363.5 | 667.4 | -708.5 | 973.3 | 0.34 | -0.22 | 1.09 |

NEWFIELD

# Payzone Directional

Survey Report

| | | | |
|---|---|---|---|
| **Company:** | NEWFIELD EXPLORATION | **Local Co-ordinate Reference:** | Well U-7-9-16 |
| **Project:** | USGS Myton SW (UT) | **TVD Reference:** | U-7-9-16 @ 6028.0ft (Capstar 329) |
| **Site:** | SECTION 17 T9, R16 | **MD Reference:** | U-7-9-16 @ 6028.0ft (Capstar 329) |
| **Well:** | U-7-9-16 | **North Reference:** | True |
| **Wellbore:** | Wellbore #1 | **Survey Calculation Method:** | Minimum Curvature |
| **Design:** | Actual | **Database:** | EDM 2003.21 Single User Db |

**Survey**

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---|---|---|---|---|---|---|---|---|---|
| 5,512.0 | 13.60 | 312.30 | 5,407.2 | 674.7 | -716.4 | 984.1 | 1.26 | -1.11 | -2.44 |
| 5,558.0 | 13.30 | 312.40 | 5,451.9 | 681.9 | -724.3 | 994.8 | 0.65 | -0.65 | 0.22 |
| 5,603.0 | 12.80 | 311.20 | 5,495.8 | 688.7 | -731.9 | 1,004.9 | 1.26 | -1.11 | -2.67 |
| 5,648.0 | 11.80 | 308.70 | 5,539.7 | 694.8 | -739.2 | 1,014.5 | 2.52 | -2.22 | -5.56 |
| 5,693.0 | 11.90 | 311.10 | 5,583.8 | 700.8 | -746.3 | 1,023.7 | 1.12 | 0.22 | 5.33 |
| 5,739.0 | 11.90 | 311.80 | 5,628.8 | 707.0 | -753.4 | 1,033.2 | 0.31 | 0.00 | 1.52 |
| 5,784.0 | 11.60 | 310.00 | 5,672.8 | 713.0 | -760.4 | 1,042.4 | 1.05 | -0.67 | -4.00 |
| 5,830.0 | 12.60 | 312.00 | 5,717.8 | 719.4 | -767.6 | 1,052.0 | 2.36 | 2.17 | 4.35 |
| 5,875.0 | 12.90 | 313.60 | 5,761.7 | 726.1 | -774.9 | 1,061.9 | 1.03 | 0.67 | 3.56 |
| 5,920.0 | 12.20 | 312.70 | 5,805.6 | 732.8 | -782.0 | 1,071.7 | 1.62 | -1.56 | -2.00 |
| 5,966.0 | 11.10 | 311.40 | 5,850.7 | 739.0 | -788.9 | 1,081.0 | 2.46 | -2.39 | -2.83 |
| 6,001.0 | 11.50 | 311.30 | 5,885.0 | 743.6 | -794.1 | 1,087.9 | 1.14 | 1.14 | -0.29 |
| 6,056.0 | 12.10 | 313.60 | 5,938.8 | 751.2 | -802.4 | 1,099.1 | 1.39 | 1.09 | 4.18 |
| 6,102.0 | 11.60 | 313.90 | 5,983.9 | 757.7 | -809.2 | 1,108.6 | 1.10 | -1.09 | 0.65 |
| 6,147.0 | 10.70 | 312.00 | 6,028.0 | 763.6 | -815.6 | 1,117.3 | 2.16 | -2.00 | -4.22 |
| 6,192.0 | 9.40 | 311.70 | 6,072.3 | 768.9 | -821.4 | 1,125.1 | 2.89 | -2.89 | -0.67 |
| 6,237.0 | 8.80 | 310.60 | 6,116.8 | 773.5 | -826.8 | 1,132.2 | 1.39 | -1.33 | -2.44 |
| 6,283.0 | 8.50 | 309.80 | 6,162.2 | 778.0 | -832.1 | 1,139.1 | 0.70 | -0.65 | -1.74 |
| 6,322.0 | 7.90 | 307.00 | 6,200.8 | 781.5 | -836.4 | 1,144.7 | 1.85 | -1.54 | -7.18 |
| 6,382.0 | 7.90 | 307.00 | 6,260.3 | 786.4 | -843.0 | 1,152.9 | 0.00 | 0.00 | 0.00 |

Checked By: _____ Approved By: _____ Date: _____

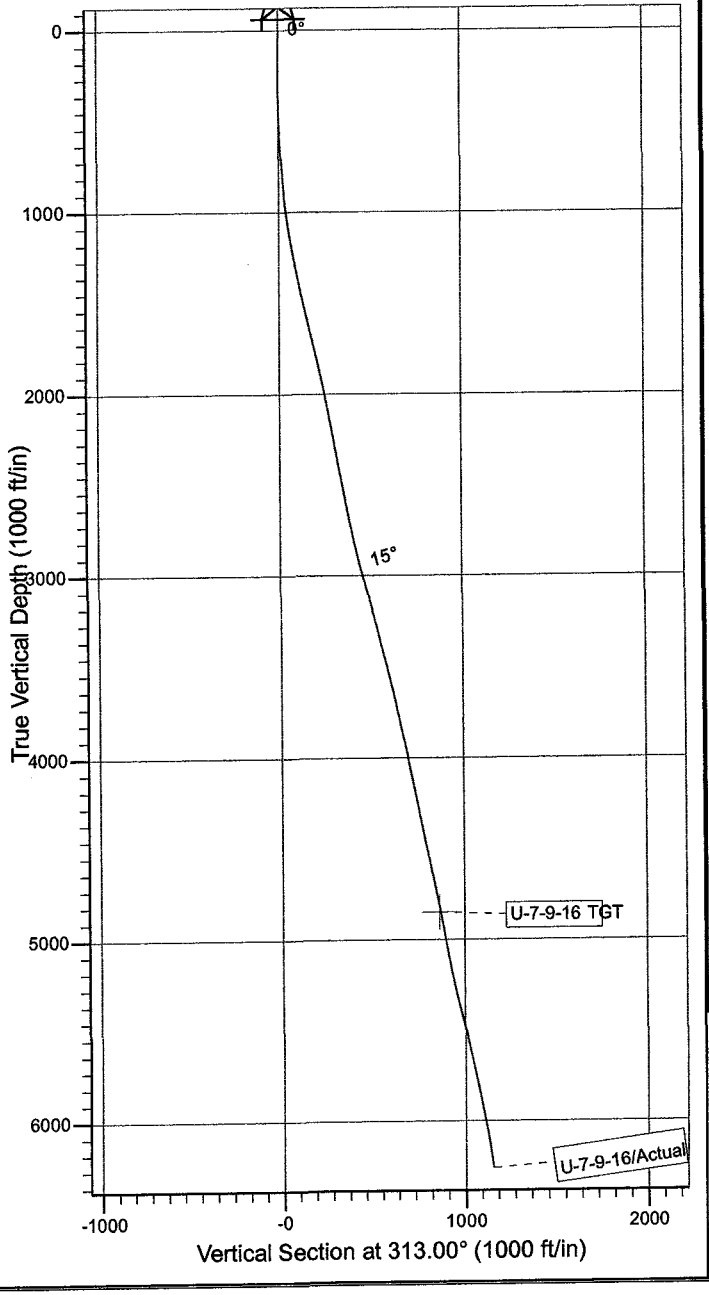
NEWFIELD

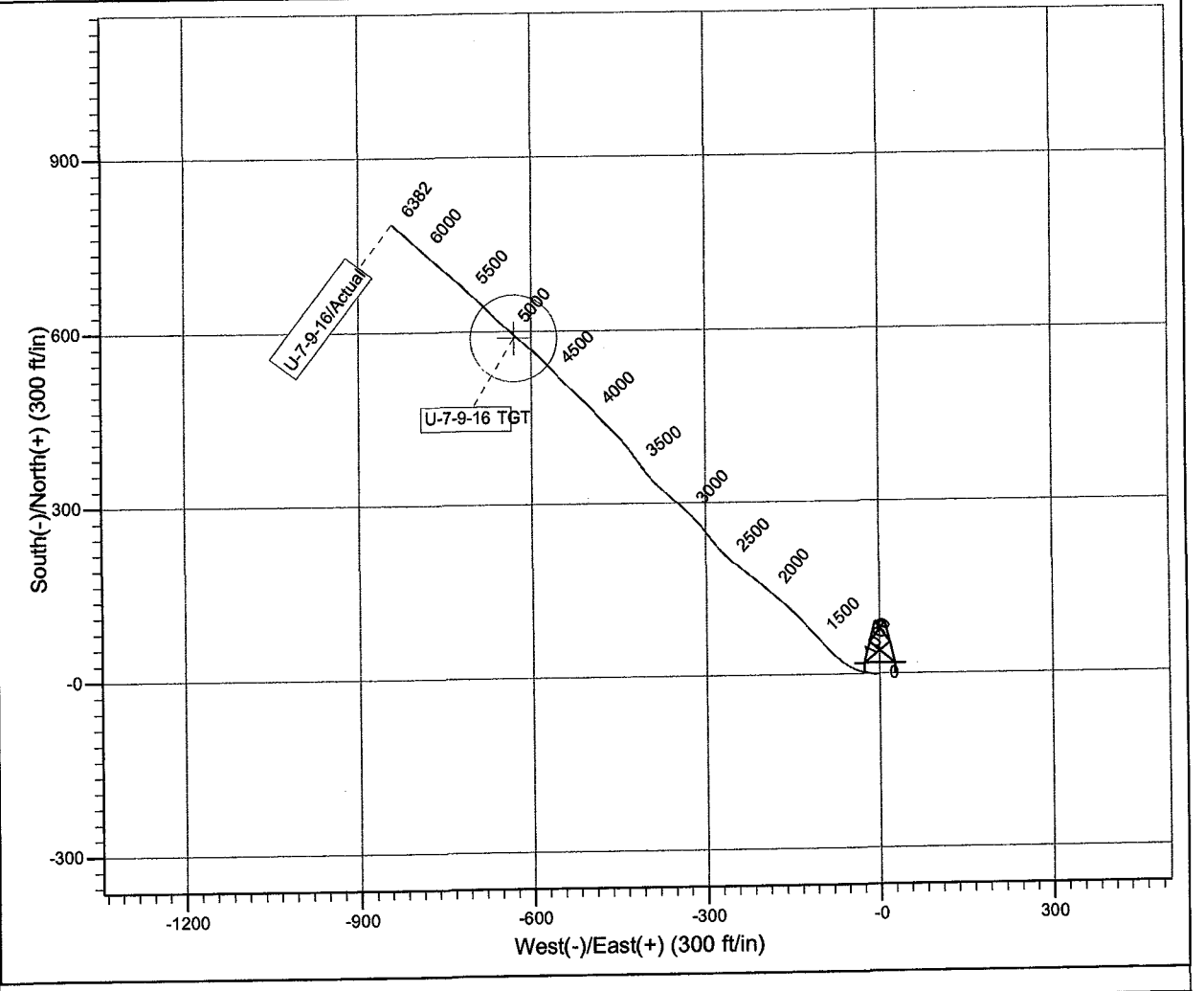
Project: USGS Myton SW (UT)
Site: SECTION 17 T9, R16
Well: U-7-9-16
Wellbore: Wellbore #1
Design: Actual

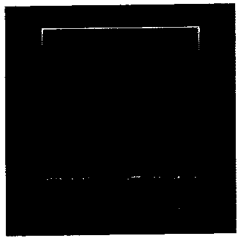
T M

Azimuths to True North
Magnetic North: 11.40°

Magnetic Field
Strength: 52294.8snT
Dip Angle: 65.78°
Date: 12/29/2010
Model: IGRF2010



Design: Actual (U-7-9-16/Wellbore #1)

Created By: Sarah Webb Date: 20:07, December 29 201

THIS SURVEY IS CORRECT TO THE BEST OF
MY KNOWLEDGE AND IS SUPPORTED
BY ACTUAL FIELD DATA